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Oil, Paint and Drug Reporter

The Chemical Market Authority Since 1871

Volume 151 No. 21

May 26, 1947

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Oil, Paint and Drug Reporter

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Scientific Data Bill Debated

OPD Washington Bureau

The senate committee on expenditures in government departments began hearings last week on the Fulbright bill (S. 493) providing for the coordination of agencies disseminating technological and scientific information and for the more efficient and orderly administration of a program to make the discoveries of inventors and scientists more readily available to industry. The measure was both endorsed and opposed by representatives of business and the government.

The measure is similar to one proposed last session of Congress (S. 1248) but which failed of enactment. It seeks to set up a central government clearing house for all information of a technical and scientific nature and provides for a depository in the Department of Commerce where inventors can record ideas which may at some time in the future become patentable. Its sponsors den that the legislation would overlap the functions of the National Science Foundation provided for in the bill (S. 526) passed by the senate earlier in the week.

Among the powers proposed to be granted the Secretary of Commerce by the bill is authority to undertake, through the National Bureau of Standards or other facilities, engineering or technological research on industrial, commercial or related problems

—*Continued on page 81*

Babassu Oil Initial Import Quota Set

OPD Washington Bureau

The Department of Agriculture announced last week that an initial authorization to import 250 tons of babassu kernels or babassu oil from Brazil, for domestic consumption, will be granted within the limit of International Emergency Food Council allocations to any person making application to the Production and Marketing Administration.

Second and subsequent authorizations, not in excess of 250 tons each, will be granted any person upon application and presentation of satisfactory evidence to the Production and Marketing Administration that the quantity covered by the preceding authorization has been purchased for importation in accordance with the authorization.

Authorizations to import babassu kernels or oil will be made under War Food Order 63, covering imports of agricultural products into the United States. Applications should be made on form WFO-63-2, which is obtainable from the fats and oils branch, Production and Marketing Administration, Department of Agriculture, Washington, D. C.

Agar, Wax, Safrol Offered by USCC

The United States Commercial Company will take bids up to noon, June 11, on the following Japanese products:—

Agar, 500 bales (100 pounds net), graded as Kobe Strip No. 1, fair average quality.

Vegetable wax, 200 cases (224 pounds net).

Safrol, 50 drums (450 pounds net).

These products are now afloat and due to arrive in New York during June. They are being imported pursuant to arrangements entered into by the United States Commercial Company, the Department of State, the War Department, and the Supreme Commander for the Allied Powers for the handling of Japanese exports.

Each product will be sold individually under separate terms and conditions of sale. The minimum quantities for which bids will be entertained are 30 bales of agar-agar, 50 cases of vegetable wax, and 25 drums of safrol. Terms and conditions of sale will be mailed to all who make request to the United States Commercial Company, Washington 25, D. C.

Minerals Depletion Allowances Asked

OPD Washington Bureau

Representative Francis Case of South Dakota has introduced a bill (H. R. 3530) in the house to provide percentage depletion allowances for tax purposes in the case of production of beryl, feldspar, mica, lepidolite, and spodumene. The allowance would be made respect to taxable years beginning after December 31, 1946. The bill was referred to the Ways and Means Committee which is now making a study of the entire tax structure.

FDA Pamphlet Aids Importers

OPD Washington Bureau

To assist foreign manufacturers and shippers of foods, drugs, and cosmetics who desire to resume trade with this country, the Food and Drug Administration has issued a pamphlet explaining United States requirements for their admission into this country. The same standards of purity, safety, and truthful labeling are required for domestic products and those admitted from foreign countries.

The new publication, entitled "Import Requirements of the United States Food, Drug, and Cosmetic Act" explains the Act and regulations in simple terms. It discusses sanitation, lists the standards that have been promulgated, and gives some of the reasons for refusal of entry of certain products in the past. Emphasis is placed throughout the pamphlet on products most commonly imported into the United States, but no attempt has been made to cover all products that have been or may be offered for entry.

Single copies of this pamphlet, listed as Food and Drug Administration "Miscellaneous Publication No. 2" may be obtained from the Food and Drug Administration, Washington 25, D. C. Copies may be purchased direct from the Superintendent of Documents, Washington 25, D. C., in any quantity, at 15c. a copy.

Drug Law Application Stops After First Intrastate Sale

OPD Washington Bureau

The decision of the United States Circuit Court of Appeals for the Fifth Circuit in the Sullivan case which denies to the Federal government the right to prohibit over-the-counter sales of dangerous or "Rx liquid" drugs is one of the most important decisions ever given to affect the distribution of drugs; for it holds that once the drug has passed from the hands of the person importing it into a State (usually the wholesaler), Federal control ends and State control begins.

Jordan J. Sullivan, druggist, Columbus, Ga., was convicted by the United States District Court under section 301 (c) and (k) of the Federal food, drug, and cosmetics act for selling over the counter two lots of twelve tablets each of sulphathiazole to two Federal inspectors. He appealed the conviction to the circuit court which overruled the lower court.

Court's Opinion

The opinion of the circuit court in connection with its reversing decision was, in part, as follows:—

The general constitutionality of the Federal act under the commerce clause of the Constitution is admitted. The contentions are that the act is not intended to operate on retail sales over the counter, after interstate commerce has ended, by one who was not the importer; that the language is not clear enough to make criminals of such sellers; and that, if construed to apply to them, the act is to that extent beyond the power of Congress.

It will be noted that the only interstate commerce here involved is the transportation of bottles of drugs in boxes from Chicago to Atlanta at least nine months before the sales here in question. The boxes came to rest in Atlanta and were opened by the importer, Abbott Laboratories, and the bottles were put in their stock of drugs in Atlanta for sale. Over six months thereafter Sullivan bought one bottle, which is conceded to have been duly labeled, and put it into his stock of drugs at Columbus for retail sales, where the bottle stayed for three more months. If the criminal provisions relied on apply here, they apply to all intrastate sales of imported drugs after any number of intermediate sales within the State and after any lapse of time; and not only to such sales of drugs, but also to similar retail sales of foods, devices, and cosmetics, for all these are equally covered by these provisions of the act. We are not able to conclude that the act is to be so construed as to bring within these penal provisions most of the sales in all drug stores, beauty parlors, barber shops, and retail grocery stores in the United States.

The general purpose of the act is declared in its simple title:—"An act to prohibit the movement in interstate

—*Continued on page 80*

Drug Law Guaranty Applies from Origination

OPD Washington Bureau

The Supreme Court of the United States has held in an eight-to-one decision that it is illegal for producers of articles covered by the food, drug, and cosmetic act falsely to guarantee to distributors that their products are not adulterated or misbranded, regardless of whether they are to enter into interstate or intrastate commerce.

The decision, from which Associate Justice Jackson dissented on the grounds that the law was intented to cover guaranties on interstate shipments only, was handed down in a case by the government against Michael Walsh, an individual trading as Kelp Laboratories. The district court had dismissed the suit and the government appealed directly to the supreme court and won a reversal.

The facts in the case were:—In February, 1943, the defendant gave a continuing guaranty to Richard Har-

—*Continued on page 47*

Sugar Control Opposition Mounts

OPD Washington Bureau

Legislation providing for the immediate lifting of all ration controls over distribution of sugar has been introduced in the senate by Senators Joseph R. McCarthy of Wisconsin, John W. Bricker of Ohio, Kenneth S. Wherry of Nebraska, James P. Kem of Missouri, George W. Malone of Nevada, John S. Williams of Delaware, and Zales N. Ecton of Montana. Under existing law the controls are scheduled to continue to October 31.

Price Trend Descent Sharper

Buyers' interest continued to slacken in the markets for chemicals, oils, and drugs last week. Resale materials were coming out in increasing volume owing to a tendency to lighten inventories stagnated by inability to get some other article needed for operations. The marked manifestations of this condition were in oils and textile chemicals. The cumulative result was a substantial depression of the general price level of the markets.

Resuming production added to the supply of caustic soda. More available freightcars expanded distribution of soda ash. There was a consequent shrinkage in "gray market" prices, but the alkali situation is still uncomfortably and restrictively tight, and shipments are far behind commitments. Transportation was still a block on chlorine production. Farmers are extensively doing their own hauling of copper sulphate and other seasonal needs.

Fats and oils were again the weakest member of the family. There was a bit of surprise in a big cut in prices of carnauba waxes. Beeswax also was cheaper. So were eight big-volume oils, drying oils included. The resale market in linseed oil was notably weak against any firm bid. Philippine copra is going more heavily to Europe, so there was a boost in its price here, followed by one in coconut oil. Prices of wood rosin and turpentine were reduced, but marketers of gum naval stores withdrew offerings with a demand for hoists of as much as 50 percent. The sagging of soybean oil indirectly induced lowering of prices on soybean protein and flour. Tapioca flower also was cheaper, but corn products were upped.

Demand, mostly slackening, continued to be the biggest influence in the markets for aromatics. The prices of five aromatic chemicals were advanced as a result. These included ketone musk, but ambrette and xylene types were lower because of increased production. Two aromatic-oil derivatives, four imported oils, and a dozen spices were at lower levels. Belladonna was the only higher botanical drug; five were on the downside, along with copaiba, and three gums.

Quicksilver was a bit cheaper. Barium hydroxide, copper nitrate, magnesite, and rubbermakers' zinc carbonate were higher. Fertilizer chemicals were moving as fast as transportation permitted, but not fast enough. Direct selling is becoming characteristic on sulphate of ammonia. The situation in coaltar chemicals showed no change.

OPD Price Index

The OIL, PAINT AND DRUG REPORTER'S relative record of prices for chemicals and related materials is currently as follows:—

May 22, 1947	May 15, 1947	May 23, 1946
145.1	**145.8**	**135.1**

The base of the OPD Price Index is the average of prices in 1926 and 1936, those years representing extremes of price undulations in the interwar period.

OPD Index Monthly Averages

	1947	1946	1945	1941
January	150.9	135.3	133.0	107.8
February	151.9	135.4	133.2	110.3
March	154.9	135.2	132.7	111.9
April	152.3	134.9	132.2	115.5
Year's av'age		138.8	133.3	122.2

Copra and Marine Oil Interim Allocation Set

OPD Washington Bureau

Pending the completion of a recommended allocation of all fats and oils moving in international trade during 1947, the International Emergency Food Council has just issued interim allocation recommendations on Philippine copra, and the marine oil of the Norwegian catch.

The interim allocation recommendation of Philippine copra affects thirty-three importing nations. It is based upon the latest estimate of Philippine copra production in 1947—485,000 tons.

After subtracting a reserve of 13,600 tons, the remainder is distributed among the importing nations. Each importing nation with an annual allocation of 20,000 tons or less is authorized to procure and ship forthwith the entire amount of such allocation. Each importing nation with an annual allocation of more than 20,000 tons is authorized to procure and ship 75 percent of such allocation.

The interim allocation recommendation on marine oils covers only whale and fish oil from Norway. The amount allocated from Norway is 163,000 tons, which will be distributed among sixteen countries. Each nation receiving a recommended allocation is authorized to purchase and ship forthwith up to 100 percent of the recommended amount.

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Jones Dabney Promotes Musterman

Jones Dabney Company, the industrial division of Devoe & Raynolds Company, Louisville, Ky., has elected E. F. Musterman as vice-president in charge of manufacturing in the Louisville, Detroit and Newark, N. J., plants.

Truman Asks Quota Controls Extension

Prsident Truman last week urged Congress to continue domestic allocation controls for another year on tin and tin products, manila and agua fibers and cordage, antimony, cinchino bark, quinine and quinidine.

At the same time he recommended existing controls over the importation of fats and oils, rice and rice products, and nitrogenous fertilizers be extended for another twelve months and that in the case of nitrogen, the government continue to provide priorities for export.

The President's special message made no mention of the public purchase program for cinchona bark and its alkaloids, and presumably it is expected that this program will be allowed to expire June 30 unless Congress acts otherwise. Also, the President failed to include streptomycin among the products on which continued domestic controls are asked, and this program, too, presumably will be dropped.

In addition to the specific products mentioned, Mr. Truman also urged that authority to regulate the export of key industrial materials be continued, so that these materials essential to the reconstruction and rehabilitation of other countries will be channeled to the areas where they are most needed.

Du Pont Realigns Official Family

William F. Raskob has resigned as secretary of E. I. du Pont de Nemours & Co., Wilmington, Del., and will retire from the company at the end of the month. The company announces the election of Lammot duP. Copeland, a member of the board of directors and finance committee, as his successor.

At the same time, the company appointed Crawford H. Greenewalt as vice-chairman of the executive committee. He is a vice-president and director of the company and is a member of the executive committee.

Mr. Copeland, in addition to serving as secretary of the company, will continue as a director and member of the finance committee. He started with the company at the control laboratory in the Fairfield, Conn., plant of the fabrics and finishes department in 1929. Transferred to Wilmington in 1935, he held various posts in that department until 1941 when he joined the development department. His election as a director came in 1942, and as a member of the finance committee in 1943.

Mr. Greenewalt joined Du Pont as a chemist in the Philadelphia Works in 1922 upon his graduation from Massachusetts Institute of Technology. Subsequently, he served in various capacities in the chemical department at the experimental station, Wilmington; as chemical director of the Grasselli Chemicals Department; as a technical director in the explosives department in connection with the Hanford Engineer Works in the atomic energy program; as assistant director of the development department; and as assistant general manager of the pigments department. He was elected a director of the company in 1942, and succeeded Jasper E. Crane as vice-president and member of the executive committee on May 31, 1946.

Health Insurance Plan Sidetracked in House

President Truman last week renewed his plea to Congress for enactment of a national health insurance program but his appeal was immediately sidetracked by the Republican leadership in the senate on the grounds that the crowded legislative calendar for the remainder of the session precludes consideration of the controversial compulsory insurance question this session.

However, hearings were started by the Labor Committee on an alternate program (S. 585) for the creation of a National Health Agency, sponsored by Senator Robert Taft of Ohio, but with the announcement of the senator that it was not the intention to take up the bill this year.

Heads Sales Executives

Frank W. Lovejoy, of the Socony-Vacuum Oil Company, New York, was re-elected president of the Sales Executives Club at the annual meeting held in the Roosevelt hotel, New York, last week.

Agricultural Budget Cut By House Group

OPD Washington Bureau

Continuing its slashing at the President's budget for the fiscal year 1948, the house appropriations committee last week recommended that funds for the Department of Agriculture be reduced to $850,728,532. This is a cut of $337,842,786 below the amount requested by the President, and $423,957,519 below the amount appropriated last year.

The major portion of the cuts effected were obtained through reductions in appropriations for the Agricultural Adjustment Administration, the school-lunch program and the Farm Home Administration, together with reductions of a lesser degree in the Rural Electrification Administration, research, forestry and other branches.

Surplus Materials Offered by WAA

Current offers of surplus chemicals and related materials by the War Assets Administration include the following:—

Potassium bifluoride (erroneously listed as bichloride last week), 496,400 pounds, negotiated price, Philadelphia.

Smoke dyes, green (cyanin green, 70 percent; auramine, 30 percent), 87,967 pounds; red (1-methylaminoanthraquinone), 65,781 pounds; violet (1:4-diamino-2:3-dihydroanthraquinone, 80 percent; 1-methylaminoanthraquinone, 20 percent),

—*Continued on page 81*

Market Reports

Coconut oil was firmer, with sales of crude oil reported at 13c. and 13¼c., tankcars, Pacific Coast.

Copra for shipment was advanced late in the week and quoted at $181 per short ton, f.o.b. Pacific coast. Buying interest was slow.

Corn syrup prices were advanced 50c. per 100 pounds, making carlot quantities $6.15, and less than carlot amounts, $6.30.

Corn oil was lower, with sales at 19c. per pound, tankcars, f.o.b. mills.

Linseed oil shipments from the Argentine last week totaled 8,480 tons, according to cable advices. Some 7,677 tons were consigned to the United States and 803 tons to other destinations.

Lobelia herb became still easier late last week although the new crop is some distance off. Quotations were set at 70c. to 73c. per pound, with the market being very narrow and the holdover distinctly moderate in size.

Senega root underwent a further price decline, said movement being along the line of normal and seasonal expectations. Quotations were offered at $2.15 to $2.20 per pound, with demand being very small.

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Excise Tax Revision Supported by Snyder

OPD Washington Bureau

Secretary of the Treasury John A. Snyder last week gave his support to proposals for a comprehensive revision of the excise tax structure to eliminate levies which are proving burdensome to business and difficult of administration. He also urged consideration of the problem of discriminations in taxes between domestic and imported goods, citing taxes on products containing alcohol as an example.

Testifying before the house ways and means committee at the opening of his investigation into the general tax structure, the Secretary said that the federal government now imposes excise taxes on more than 50 commodities or services, most of which were substantially increased or newly imposed to help in the financing of the war.

Because these taxes raise such important policy questions as how much of the total revenue of the government should be raised from these sources, which in turn relates to the level of income tax exemptions, Mr. Snyder said that it is now appropriate to reexamine these excises with a view to fitting them together into a coherent

—*Continued on page 81*

Bids Wanted

Aluminum sulphate, 100,000 pounds, Army Chemical Center (Edgewood Arsenal, Md.), invitation CM-126, June 12; 32 tons, Army Quartermaster (West Point, N. Y.), invitation 143, May 29; 20 tons, Navy Purchasing Office (New York City), negotiation 1160, May 27.

Bone black, 600 pounds, Panama Canal Purchasing Officer (Washington, D. C.) schedule 8612, May 28.

Carbon dioxide, liquid, 14,000 pounds, Army Air Corps (Chanute Field, Ill.) invitation 25, June 10.

Carbon tetrachloride, 11,467 pounds, Army Air Forces (Robins Field, Warner Robins 1, Ga.), invitation 15, June 2; 30,000 gallons, Army Engineers Corps, Procurement Division (Washington 25, D. C.), invitation 40, June 6.

Chlorine, 5,400 pounds, Army Quartermaster (West Point, N. Y.), invitation 145, June 17.

Cleaning compound, 5,000 pounds, D. C. Government (Washington 4, D. C.), schedule 10110, May 27.

Compressed gases, as required during fiscal year 1948, Army Air Corps (Scott Field, Ill.) invitation 30, June 9; Army Air Corps (Lowry Field, Colorado) invitation 38, June 5; Army Quartermaster (Fort ion 38, June 5; Veterans Administration Hospital (Vancouver, Wash.) invitation 48-3A, May 29; Veterans Administration (Sheridan, Wyoming) invitation 48-12, May 28; Department of Justice invitation 14-2002, June 17; Department of Justice (Englewood, Col.) invitation 30-1579, June 9; Veterans Administration (Dayton, Ohio) invitation 48-6, May 28; Veterans Administration (North Little Rock, Ark.) invitation 48-6, June 3; Veterans Administration (Hot Springs, S. Dak.) invitation 48-7, June 5.

Creosote, 5,000 gallons, Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8612, May 28.

Detergent, organic, 3,500 pounds, Army Chemical Center (Edgewood Arsenal, Md.) invitation CM-113, June 13.

Dichlorodifluoromethane, 7,250 pounds, Panama Canal Purchasing Officer (Washington, D. C.) schedule 8614, May 28.

Drugs and chemicals, Veterans Administration (Washington 25, D. C.), invitation A-111, May 28; invitation A-112, June 2; invitation A-116, June 2; invitation A-114, May 29.

Ink, powdered, 4,000 containers, Army Signal Corps (Philadelphia 45, Pa.), invitation 1134, May 27.

Kahn standard antigen, 200 liters, circular adv. 3, June 10.

Laundry sour and blue, 117,350 pounds, Veterans Administration (Washington, D. C.), invitation 157-F, May 28.

Linseed oil, raw, 7,750 pounds, Panama Canal Purchasing Officer (Washington, D. C.) schedule 8612, May 28.

Lubricating oil, 3,500 pounds, Panama Canal Purchasing Officer (Washington, D. C.) schedule 8614, May 28.

Methyl ethyl ketone, 3,000 gallons, Army Signal Corps (Philadelphia 2, Pa.) invitation 1084, June 2.

Motor fuel, as required from August 1 through February 29, Treasury Department (Washington 25, D. C.), invitation 9G-9507-R, June 4; invitation 9G-9511-R, June 6; Aviation Army-Navy Petroleum Purchase Agency (Washington, D. C.), invitation 21, May 28.

Oleomargarine, 209,018 pounds, Veterans Administration (Washington 25, D. C.), invitation 166-S, June 2.

Opal wax, emulsion, 1,400 gallons, Army Air Forces (Dayton, Ohio), invitation 899, May 29.

Paint, enamel, 150 gallons, Army Chemi-

—*Continued on page 49*

Foreign Sales Leads

Anyone interested in supplying the following inquiries with goods or information can get the full address of the inquirer by communicating—not by telephone, please—with the OPD office:—

Abrasives, Turin, Italy (S-5).

Aluminum sulphate, Porto Alegre, Brazil (S-18).

Calcium carbide, Natal, Brazil (S-20).

Caustic soda, Istambul, Turkey (S-8); Natal, Brazil (S-20); Salvador, Brazil (S-21); Maceio, Brazil (S-23).

Chemicals, London, England (S-1);

—*Continued on page 80*

Science Foundation Approved by Senate

OPD Washington Bureau

The National Science Foundation bill (S. 526) was passed by the senate last week and sent to the house for concurrent approval. No indication was forthcoming from that body, however, as to when consideration would be given to the measure. It was thought probable, however, that the program has a good chance of final enactment before adjournment slated for sometime in July.

As passed by the senate by a vote of 79 to 8 the bill is largely in the form in which it was reported earlier this session by the senate committee. Efforts of the liberal bloc to rewrite its provisions so as to make it conform more closely to the so-called Kilgore bills of last Congress, were largely ineffective, with one exception.

An amendment by Senator Wayne Morse, of Oregon, to distribute a portion of the funds for research on the basis of population among the states, provided certain standards are met by the colleges and universities, was adopted 42 to 40. It provides that not less than 25 percent of the funds appropriated for research activities shall be apportioned in this manner. A second amendment, that an additional 25 percent of research funds should be expended in non-profit organization facilities in like manner, was defeated.

Also defeated was an amendment of Senator Harley Kilgore, of West Virgina, which would prohibit the patenting of any invention developed through the use of the Foundation's funds, unless express permission is contained in the contract.

Manufacturing Chemists 75th Meeting June 4

OPD Washington Bureau

The seventy-fifth diamond jubilee meeting of the Manufacturing Chemists Association will be held at Skytop Lodge, Skytop, Pa., June 4, it is announced by the association. The one-day program will start at 9:30 a.m., with the annual address of president, Charles S. Munson, who has taken as his topic "Then and Now."

A business session will follow and afterwards Dr. Leo Wolman will lead an open forum on "What Is Our Labor Policy?"

H. A. Campbell, chief inspector of the Bureau of Explosives, will address the group on the Texas City disaster, to be followed by an open forum.

The evening dinner session, starting at 7 o'clock, will feature two reports by H. W. Fisher, president of Enjay, Inc., on "Petroleum as a Source of Chemical Raw Materials" and by George L. Parkhurst, president of Oronite Chemical Company on "Synthetic Organic Detergents."

Reilly Tar Output Curtailed by Fire

Productive capacity at the Newark, N. J., plant of the Reilly Tar & Chemical Corporation was sharply curtailed last week as the result of a fire of undetermined origin which completely burned out a unit of the molding powder plant. Company officials, who stated that the unit would be rebuilt and modernized as quickly as possible, estimated that capacity was reduced about 50 percent by the blaze.

Foreign Market Lists

Lists of foreign outlets for chemicals and related materials and consumers goods recently compiled by the Commercial Intelligence Division of the United States Department of Commerce include the following, which are available from the division at $1 for a list for any one country:—

Medicinal and toilet-preparation importers and dealers, Costa Rica; Honduras; Norway.

Medicinal and toilet-preparation manufacturers, Cuba.

Naval stores importers, dealers, producers, exporters, Panama.

Photographic supplies, dealers, photographers, Argentina; Brazil; Mozambique; Union of South Africa.

Petroleum industry, Switzerland.

Synthetic organic chemicals manufacturers, Mexico.

Tanneries, Dominican Republic.

P.A.'s-Eye View of Business

Composite view, May 25, of purchasing agents composing the Business Survey of the National Association of Purchasing Agents

No great change in the trend is found in our May reports. The larger proportion confirm the statistics on continued high production and sales. The few reporting lessened business activity about balance those showing increases. Most of the increases are in seasonal production and from the availability of previously short materials. On the downside, soft goods are predominant—luxury items, cosmetics, some household goods—with a few machine tool slackoffs mentioned.

Others, such as automotive and refrigerators, report that orders on hand would warrant higher production schedules—if more sheet steel could be obtained.

Most noticeable is the absence of depression pessimism in the reports. While a buyers' market is not here, it seems indicated for the near future; but the fact that more sellers are refiguring costs and showing a desire to negotiate business on a realistic selling basis is hailed as a most healthy sign. Companies failing to adjust sales policies may find their competitive position challenged.

Commodity Prices

The cut-price publicity of the past month, mostly at the retail level, has had no practical effect on basic industrial commodities, unless it has put a brake on advancing prices to reflect the current wave of wage increases.

Purchasing agents do not expect a straight-across-the-board percentage reduction in industrial material prices. They look for adjustments as prices find their level through rapidly increasing competition, which is developing as demand is reduced to production requirements and supplies come into better balance with that demand.

Inventories

The goal of lower inventories is being reached by more and more companies. The April reports showed 33 percent as lower; May, 45 percent, and many who show "no change" comment that inventories are not too high for present programs.

Some with unbalanced, high inventories are disposing of surplus items. Industrial inventories are considered to be in the best condition reported so far this year. With supply pipelines filling up, many report it is now possible to make purchases of production materials after the sales department gets the business.

There is every indication that inventories will continue downward to the lowest possible workable level.

Buying Policy

Hand-to-mouth to sixty-day commitments appear to be the general policy, with ninety days the maximum. Some few on longer terms advise coverage is for future production of firm orders on hand, requiring materials in the less speculative classes.

Price stabilization is being encouraged by regulating purchases to immediate needs.

Specific Commodity Changes

As this report is written, copper is in the unusual position of having three prices—21½ cents, 24 cents, and an average of the two—this in the face of producer, seller, and consumer general agreement that the price of copper is too high. The shrinkage in brassmill product backlogs makes earlier deliveries possible. The demand for wire bars is heavy and is expected to continue.

Corrugated containers have been reduced and are easier to get. Other items on the downside are camphor, cotton linters, drying oils, electric cable, some fats and oils, glycerin, lumber (particularly lower grades), manila rope, scrap paper, scrap steel, rubber, resin, starch, cotton fabrics, tallow, tung oil, turpentine, wire-bound boxes.

Increases noted were alcohol, electric motors, nonferrous castings, some papers, titanium, wire rope.

A report from the international conference is that tin will be very short for the next two years, due to the slow comeback of producing areas that were held by the Japanese. A similar report on rubber was made a few months ago, but now supplies are ample.

Employment

There is not much change from April, when reports indicated the uptrend had stopped. A few report normal, seasonal changes up and down. More competent help is avail-

—Continued on page 87

Washington Talks It Over

The OPD Observer

Lowell Mason is making for himself anything but a bed of roses in the staid old Federal Trade Commission. Mr. Mason was appointed to the commission last year by President Truman and ever since has been breaking its time honored precedents. First, he insisted that its decisions be written in the language understood by the businessman, rather than the lawyers; next he insisted that the opinions of the commissioners in cases be published; now he is accusing not only the FTC, but all of the other government agencies of engaging in a monopoly in bureaucracy.

Instead of talking about the vested interests in business, he says, let us inquire if there be vested interests in the agencies of government. Mr. Mason takes the affirmative and turns the spot light on his own camp with the suggestion that a look be taken at the great changes in the economy of this country since they passed the FTC Act thirty-three years ago, and then consider the lack of progress made in the realm of government and business relations.

"To me," he says, "much of this stems from our reluctance to bring about observance of the law by merchants through any other method than the firmly entrenched hit-and-miss individual prosecutions. This method monopolizes the entire effort of government; none other is allowed to compete with it. I speak of cooperation between government and business and instantly the vested interests of bureaucracy cry that you are stiffling competition.

"Government, in an effort to keep pace with industrial growth and its attendant new problems, jumps one way and then the other. First, we pinned our faith on that hoary old Sherman Law which says you must not conspire to restrain trade. This model T version of Adam Smith's ancient diatribe would put a couple of corner grocers in jail for whispering the price of potatoes over their beer, but it blessed with legality the setting of potato prices in 10,000 stores if all happened to be owned by one corporation.

"Then suddenly government had a change of heart about combinations and put a pants presser in jail because he didn't join a conspiracy to fix prices—a little memento of our 1933 experiment. It was followed some years later with such a demonstration of vigorous trust-busting that if it weren't for the negligible results obtained, one would think sin had at last been conquered.

"It's getting so today that in the fields of trade practices it often depends on how you hold your mouth whether you are guilty or innocent of a law violation."

Foreign Trade Information

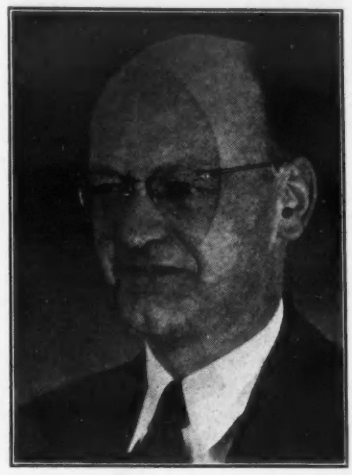
One of the effects that industry will feel from the recent reduction in appropriations for the Department of Commerce will be in the curtailment of the department's efforts to expand foreign markets for American products. Ever since the war the department has been trying to bring its information up-to-date on economic conditions and business opportunities abroad. It has a large backlog of material that it can't get out because of

—Continued on page 40

Oil Chemists Elect Milner President

R. T. Milner, of the Northern Regional Research Laboratory of the Department of Agriculture, was elected president of the American Oil Chemists' Society at the annual meeting held in New Orleans last week. Mr. Milner had served as vice-president of the society for the past year.

The meeting was featured by the presentation of nearly a score of technical papers reporting the most recent research in the field of oil chemistry.



R. T. Milner

Oils from Perennial Gourds

In a paper prepared by W. C. Ault and Margaret L. Swain, of the Eastern Regional Research Laboratory, Philadelphia, and L. C. Curtis, of the University of Connecticut, results were given of the examination of the seeds and oil from the seeds of cucurbita plamata and cucurbita digitata, two species of perennial gourds which grow wild in the southwestern states.

"Approximately two-thirds, by weight," it said, "of the whole dried fruit was seeds, which contained about

—Continued on page 84

Mercury Production Stimulation Asked

OPD Washington Bureau

Government stimulation of the production of mercury and other strategic minerals in peacetime in order to maintain at least a nucleus of a going industry as a policy of national defense was urged on the floor of the house last week by Representative Harris Ellsworth of Oregon.

He said that it is reported that the stockpile board is not concerned about the present condition of the mercury-producing mines of the United States because of the large stockpiles of mercury in the country. Regardless of whether these stockpiles are now considered adequate, he stated, the mines should be kept in a position so that they might be immediately able to turn out this metal for any emergency.

Mr. Ellsworth charged that the reluctance of the stockpile board to purchase mercury, plus the fact that large quantities of cheap metal are coming in from other countries, "is ruining our mercury-mining industry. An inadequate tariff also contributes to this situation.

"Not many years ago, some 140 mercury mines were operating in this country. Now a scant half dozen are in position to produce at all, and these may be shut-down at any time. The cost of reopening these mines in time of emergency would be infinitely greater than the cost of reasonable stimulation by the government."

Westvaco Names Oskin N.Y. Alkali Sales Head

D. C. Oskin, Detroit district sales manager for Westvaco Chlorine Products Corporation, New York, has been transferred to the headquarters sales staff, effective June 1, as division sales manager in charge of alkali and chlorine sales. Simultaneously, A. L. Crane, who has been a Westvaco sales representative in New York and Chicago for the past three years, will replace Mr. Oskin in Detroit.

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Glyceryl Phthalate

Adhesives—Plasticizer in adhesive compositions, containing cellulose acetate.

Ceramic—Plasticizer in compositions containing cellulose acetate, used as coatings for protecting and decorating ceramic products.

Chemical—Plasticizer for cellulose acetate.

Cosmetic—Plasticizer in nail enamels and lacquers containing cellulose acetate as the base material.

Electrical—Plasticizer in insulating compositions containing cellulose acetate, used for covering wire and in making electrical machinery and equipment.

Glass—Plasticizer in compositions containing cellulose acetate, used in the manufacture of nonscatterable glass and as coatings for protecting and decorating glassware.

Leather—Plasticizer in compositions, containing cellulose acetate, used in the manufacture of artificial leathers and as coatings for protecting and decorating leathers and leather goods.

Metal-Fabricating — Plasticizer in compositions, containing cellulose acetate, used as coatings for protecting and decorating metallic articles.

Miscellaneous—Plasticizer in coating compositions, containing cellulose acetate, used for protecting and decorating various kinds of articles.

Paint, Varnish, and Lacquer—Plasticizer in paints, varnishes, lacquers, enamels, and dopes containing cellulose acetate.

Paper—Plasticizer in compositions containing cellulose acetate, used in the manufacture of coated papers and as coatings for protecting and decorating articles made of paper or pulp.

Photographic—Plasticizer in making films from cellulose acetate.

Plastics—Plasticizer in making laminated fiber products, molded articles, plastic materials from cellulose acetate.

Resins—Plasticizer for resin-cellulose derivative compositions and solutions.

Rubber—Plasticizer in compositions, containing cellulose acetate, used as coatings for decorating and protecting rubber goods.

Stone—Plasticizer in compositions containing cellulose acetate, used as coatings for decorating and protecting artificial and natural stone.

Textile—Plasticizer in compositions containing cellulose acetate, used in the manufacture of coated fabrics.

Wood—Plasticizer in compositions containing cellulose acetate, used as protective and decorative coatings on woodwork; plastic compositions, containing cellulose acetate, used for many filling and repairing purposes on wood.

Book Review

Modern Plastics Encyclopedia — 1947 Edition, New York, Plastics Catalogue Corporation. 1,556 pages, three volumes, 9 x 12, U.S.A. $8.50, Canada $11, foreign $12.

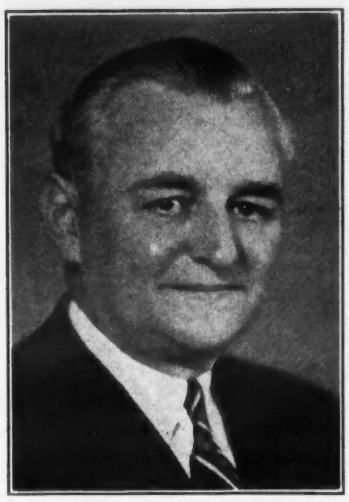
A compilation of information on plastic materials, their processing and application is to be found in this eleventh edition of the Modern Plastics Encyclopedia, which has been published in three volumes.

Volume I deals with recent developments and applications all types of plastic materials. It includes a selected bibliography of German plastics as well as information on the optical properties of plastics. There are a great many photographs to illustrate the applications of these materials.

Volume II is devoted to the problems involved in the processing of plastics. This volume also contains directories to the plastics industry which are available separately for $1.

Charts of plastics identification, chemical formulae, plastics properties, synthetic rubber properties and other related materials may be found in Volume III which is also available separately for $3.75.

Resigns from N.P.V.L.A.



Reuel W. Elton, executive vice-president of the National Paint, Varnish and Lacuer Associationq, has resigned to become general manager of the American Trade Association Executives. Mr. Elton, who had been with the paint association for seventeen years, will assume his new duties about July 1.

Sun Oil Supports Research at Temple

Sun Oil Company, Philadelphia, has assigned to the Temple University Research Institute a fundamental biochemical research project, which seeks to discover the reactions involved in the chemistry of animal and plant life.

Work completed during the last three and a half years by the company at the Linwood, Pa., laboratories of the Houdry Process Corporation, has advanced the project to a point justifying its continuance by a specialized research group, according to Arthur E. Pew, jr., a director of the company.

The project is based on the use of the carbon isotope C-13 as a tracer in reactions simulating body metabolism, Mr. Pew said, and he added that increased quantities of the isotope will be available for research when the company's new plant is completed at its Marcus Hook, Pa., refinery.

Chemical Marketing Ass'n Meets June 5

The annual business meeting of the Chemical Market Research Association will be held in the Biltmore hotel, New York, at 3 p.m. on June 5. The meeting will be followed at 5:30 p.m. by the serving of cocktails and at 7 o'clock by dinner.

Principal speaker at the dinner will be Dr. S. J. Flink, chairman of the department of economics at Rutgers University's school of business administration, who will discuss "The Economic Outlook, Fact and Fiction."

Pa. Crude Oil Group Meets June 5

Pennsylvania Grade Crude Oil Association will be addressed by Dr. Thomas C. Poulter, associate director of Armour Research Foundation, Chicago, at its twenty-third annual meeting on June 5 at the Hotel William Penn, Pittsburgh. Dr. Poulter, who was a member of the Byrd expedition, will discuss the activities of the foundation.

Fertilizer Bill Hearings Start

OPD Washington Bureau

Representatives of the fertilizer industry are tentatively scheduled to begin presenting testimony before the senate agricultural committee June 2 in opposition to the bill (S. 1251), which would put the government in the fertilizer business. The American Plant Food Council will be the first opponent to be heard, with witnesses for the National Fertilizer Association scheduled for June 3. The hearings were to start May 26, with proponents of the bill testifying.

Proprietary Association Reelects K.A. Bonham

Kenneth A. Bonham, of the Emerson Drug Company, Baltimore, was reelected president of the Proprietary Association, at the sixty-fifth annual

Kenneth A. Bonham

convention held last week in Atlantic City, N. J.

Other officers reelected were Dr. Frederick J. Cullen, executive vice-president; Lupton Patten, Chattanooga Medicine Company, Chattanooga, Tenn., H. H. Hoyt, Carter Products, Inc., New York, and Joseph D. Bohan, Centaur Company Division of Sterling Drug, Inc., New York, all vice-presi-

—Continued on page 63

W.M. Stanley Receives Willard Gibbs Medal

The virus may be converted by chemical science into a benefactor of mankind, Dr. Wendell M. Stanley, of the Rockefeller Institute for Medical Research, Princeton, N. J., declared May 23 in accepting the Willard Gibbs Medal of the Chicago section of the American Chemical Society.

These agents, which are responsible for some of the most devastating diseases of man, animals and plants are being subjected to modifications of structure which may result in one of the greatest triumphs of modern medicine, according to Dr. Stanley, who shared the Nobel prize in chemistry last year for his work on viruses.

Cereal Chemistry Progress Discussed

Fundamental as well as practical advances in the field of cereal chemistry, including nutrition and baking technology, were reported to the thirty-second annual convention of the American Association of Cereal Chemists, held last week at the President hotel, Kansas City, Mo.

Some forty-six technical papers were delivered at the scientific session, with presentation organized in such a manner as to be of aid to every type of technical worker in the cereal field.

The exhibit space allotted the convention by the hotel was fully taken up by various companies offering cereal chemists new products for better and more efficient utilization of laboratory time.

Speaking on the Research and Marketing Act of 1946, E. A. Meyer, administrator of that act, took into consideration three general questions which he felt would be of interest to cereal chemists.

He started with a detailed consideration of the provisions of the act, went on to discuss what has been done to date, and concluded with a discussion of what will be done in the future in the field of cereal chemistry.

In considering what the act provides, he explained that it sets up various research programs, which, in the past have been mostly concerned with the problems which the farmer faces in farm operations. He said that as a result of unequal distribution of research effort, the science of production has moved far ahead of the machinery by which farm products are processed and moved to the ultimate consumer.

To offset this, he said, "the act states that one of its purposes is to bring research and services in the marketing and utilization of farm products up to a position of parity with that of production."

Continuing in this vein, he explained that if the $19,000,000 author-

—Continued on page 62

Quality Control Conference June 5-6

The first annual convention of the American Society for Quality Control and the second midwest quality control conference will be held at the Sherman hotel, Chicago, on June 5-6. George F. Smith, president of Johnson & Johnson, manufacturer of surgical dressings, New Brunswick, N. J., will be a principal speaker and will discuss "Management's Viewpoint of Quality Control."

Among the speakers at the clinical sessions, and their subjects, will be William L. Gore, chemical engineer of E. I. du Pont de Nemours & Co. plastics department, "Techniques for Research and for Process and Product Development;" Roland H. Noel, director of control for Bristol Laboratories, Syracuse, N. Y., "Quality Control in Penicillin and Pharmaceutical Industries," and Dr. Martin A. Brumbaugh, also of Bristol Laboratories, "Quality Control Proves Itself in Assembly."

Also, Guy G. Parkin, chemical engineer and director of industrial statistical control for Minnesota Mining & Manufacturing Company, St. Paul, Minn., "Statistical Quality Control Concepts Applied to Waste and Personnel Efficiency"; B. H. Nissen, chief chemist of the brewery division of Anheuser-Busch, Inc., St. Louis, "A Study of Sampling"; J. B. Catlin, assistant technical director of Kimberly-Clark Corporation, Neenah, Wisc., "Quality Control in the Paper Industry," and J. A. Mitchell, quality control supervisor of the cellulose esters division of Tennessee Eastman Corporation, Kingsport, Tenn., "Quality Control and Chemical Specification."

Monsanto Names Wilson To Research Post

Monsanto Chemical Company has appointed Ivan V. Wilson assistant director of research for its Merrimac division, where he will be in charge of all research and application work connected with the development of new and improved types of coatings.

Mr. Wilson, who was previously manager of the coating sales development department, has been with Monsanto since 1927, most of his time being spent with the sales and development departments of the Merrimac division.

Association Meeting Dates

American Drug Manufacturers Association, Homestead, Hot Springs, Va., June 9-12.

American Leather Chemists Association, Edgewater Beach hotel, Chicago, June 18-21.

American Management Association, Waldorf-Astoria hotel, June 11-12.

American Plant Food Council, Homestead, Hot Springs, Va., June 13-15.

American Society for Quality Control, Sherman hotel, Chicago, June 5-6.

American Society for Testing Materials, Chalfonte-Haddon hotel, Atlantic City, N. J., June 16-20.

British Chemical Society, London, July 15-17.

Chemical Institute of Canada, Banff Spring hotel, Banff, Alberta, June 8-10.

Chemical Market Research Association, Biltmore hotel, June 5.

Drug, Chemical and Allied Trade section of New York Board of Trade, Pennsylvania hotel, June 25.

International Congress of Pure and Applied Chemistry, London, July 11-24.

National Association of Insecticide and Disinfectant Manufacturers, Edgewater Beach hotel, Chicago, June 9-11.

National Association of Purchasing Agents, Waldorf-Astoria hotel, New York, June 2-4.

National Fertilizer Association, Essex and Sussex hotel, Spring Lake, N. J., June 20-21.

National Foreign Trade Council, St. Louis, Oct. 20-22.

National Institute of Governmental Purchasing, Pennsylvania hotel, New York, September 8-11.

National Wholesale Druggists Association, Ritz Carlton hotel, Atlantic City, N. J., October 18-23.

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Current Market Quotations Chemicals and Related Materials

May 22, 1947

Unless otherwise indicated, listings are first-hand quotations on large lots, f.o.b. New York. Changes and trends are noted in the market reports, with other informative comment. The locations of these reports are given in the table of contents on page 4.

All matters under this heading fully protected by copyright.

A

Acacia (see Gum, Arabic).
Acetaldehyde, 99%, dms., 55 gals., works..lb. .11 - .12
5 and 10 gals., works....lb. .14 - .15
tanks .....lb. .06 - .09
Acetaldol (see Aldol).
Acetamide, CP, 5b. dms.....lb. .65 - .75
tech., fib. dms.....lb. .35 - .45
Acetanilide, tech., cryst., powd., bbls., c.l...lb. .19 - ..
l.c.l. .....lb. .20 - .23
kgs .....lb. .25 - —
USP, cryst., powd., bbls., 2,000-lb. lots..lb. .40 - .41
smaller lots.....lb. .41 - .42
Acetic anhydride, dms., c.l., frt. alld..lb. .11½- —
l.c.l., frt. alld.....lb. .13 - —
Acetoacetanilide, bbls., dms...lb. .60 - —
Acetone, CP, dms., c.l., dlvd..lb. .08½- .10½
l.c.l., dlvd. .....lb. .09 - .11½
tanks, dlvd. .....lb. .07 - .09
Methyl (see M).
Acetonitrile, dms., c.l., works.lb. .45 - —
l.c.l., works.....lb. .50 - —
5-gal. lots, works.....lb. .55 - —
less than 5-gal. lots, works .lb. .60 - —
Acetophenetidin, USP, bbls., kgs., 1,000-lb lots..lb. 1.00 - —
dms .....lb. 1.05 - 1.10
Acetophenone, cns., dms.....lb. 1.50 - 1.75
Acetyl chloride, cbys., works..lb. .09 - —
Acid abietic, dms., c.l., wk..lb. .07½- —
Acetic, com'l or redist., 28%, bbls..100 lbs. 3.75 - 4.05
50%, bbls.....100 lbs. 7.56 - 7.81
70%, bbls.....100 lbs. 9.45 - 9.70
80%, bbls.....100 lbs.10.80 -11.05
glacial, synthetic, C.P., dms., works..100 lbs.13.20 -13.75
tanks .....100 lbs. 7.62 - 7.92
tech., works.....100 lbs. 9.90 -10.20
tanks, works.....100 lbs. 7.62 - 8.12
USP, dms., works..100 lbs.11.60 -11.65
USP, 56%, cbys.....lb. .1000- .1605
Acetic acid price ranges above are c.l. and l.c.l. quantities. Carboys and cases are 50c. per 100 lbs. higher.
Acetic anhydride (see Acetic anhydride above).
Acetylsalicylic, special, USP, bbls., makers, primary distrib., point of ship't, 100-lb. lots..lb. .50 - —
smaller lots.....lb. .51 - .64
standard USP, fine, cryst., gran. (30-40 mesh), powd. (80 mesh), bbls., same basis. lb. .45 - .59
Freight equaled, shipment identical quantity over standard routes, from N. Y. City, Phila., Midland, Mich., Chicago and St. Louis.
Aminoacetic, NF, cryst., powd., bbls., frt. adjusted..lb. 1.50 - 1.67
Anthranilic, resub., bbls....lb. 2.00 - 2.30
tech., bbls. .....lb. .90 - —
Arsenous, tech. (see Arsenic, white).
USP, powd., dms., kgs....lb. .20 - .22
Ascorbic, USP, dms., 500-kilo lots..kilo.24.50 - —
25-50 kilo lots.....kilo.25.00 - —
10-kilo lots.....kilo.25.35 - —
5-kilo lots.....kilo.25.70 - —
bots., kilo lots.....kilo.26.41 - —
500 grams.....kilo.27.47 - —
Battery, cbys., c.l., E. works.. 100 lbs. 1.60 - 1.75
l.c.l., E. works.....100 lbs. 2.05 - 2.75
Benzoic, tech., bbls., 4,000 lbs. or more..lb. .43 - —
1,000 to 3,900 lbs.....lb. .44 - —
900 lbs. or less.....lb. .47 - —
USP, bbls., 4,000 lbs. up..lb. .54 - —
1,000 to 3,900 lbs.....lb. .55 - —
900 lbs. or less.....lb. .58 - .59
dms., 4,000 lbs. up.....lb. .55 - .56
1,000 to 3,900 lbs.....lb. .56 - .57
900 lbs. or less.....lb. .58 - .59
Betanaphthoic, bbls., works. lb. 1.05 - —
Boric, tech., 99.5%, gran., bulk, ton.95.50 - —
paper bgs., c.l., frt. alld. ton.99.00 - —
ton lots, ex whse, N. Y. or Chi..ton.117.50 - —
less ton lots, same basis. ton.122.50 - —
bbls., c.l., frt. alld..ton.119.00 - —
ton lots, ex whse., N. Y. or Chi..ton.137.50 - —
less ton lots, same basis. ton.142.50 - —
cryst., powd., paper bgs., c.l., frt. alld..ton.104.00 - —
ton lots, ex whse. N. Y. or Chi..ton.122.50 - —
less ton lots, same basis..ton.127.50 - —
bbls., c.l., frt. alld.ton.124.00 - —
ton lots, ex whse., N. Y. or Chi..ton.142.50 - —
less car lots, same basis..ton.147.50 - —
USP $25 per ton higher.
Broener's, bbls.....lb. 1.22 - —
Butyric, 99%, dms., c.l., works. lb. .32 - —
l.c.l., same basis.....lb. .33 - —
Cacodylic, bots.....lb.13.00 -16.50
Camphoric, synthetic, cns...lb. 7.00 - 7.25
Caprylic, 99%, dms.....lb. .50 - —
Caprie, tech., ret. dms.....lb. .45 - —
Castor oil, split, ref. dms...lb. .34½- —
Chaulmoogric, powd., dms.....lb. 1.00 - 1.05
Chlorosulphonic, dms., c.l., works..lb. .03 - —
l.c.l., works .....lb. .03½- .04½
tanks, works.....lb. .02½- —
Chromic, 99½-99¾%, dms., c.l., lb. .20 - —
l.c.l. .....lb. .20½- .21
Cinnamic, refd., bots.....lb. 3.00 - 4.00
Citric, anhyd., gran., fine gran., dms., c.l..lb. .24½- —
l.c.l., 10,000 lbs., 1 ship't. lb. .25 - —
smaller lots, bbls.....lb. .25½- —
kgs. .....lb. .26 - —
Anhydrous citric acid powder, ½c. per lb. higher.
USP, cryst., bbls., c.l.....lb. .35 - —
l.c.l., 10,000 lbs., 1 ship't. lb. .25½- —
smaller lots, bbls.....lb. .26 - —
kgs. .....lb. .26½- —
gran., fine gran., bbls., c.l. lb. .22 - —
l.c.l., 10,000 lbs., 1 ship't..lb. .22½- —
smaller lots, dms...lb. .23 - —
kgs. .....lb. .23½- —
USP citric acid powder, ½c. per lb. higher.
Cleve's, bbls. .....lb. .65 - 1.00
Coconut oil, dist., dms.....lb. .28 - —
Corn oil, s.d., dms., works..lb. .25½- .25¾
Cottonseed oil, s.d., dms....lb. .25¼- .25¾
Cresylic dom., coaltar, high-boil 50% (210°-215°), low boil 50% (204°-206°), and special blends, dms., c.l., works, frt. equald..gal. 1.16 - —
l.c.l., same basis....gal. 1.19 - —
tanks .....gal. 1.10 - —
Petroleum, heavy grade (247°-296°), dms., 20, Cal. ref..gal. .490 - —
Sewaren, N. J., ref. gal. .616 - —
1-19, Cal., ref....gal. .510 - —
Sewaren, N. J., ref. gal. .636 - —
tanks, dlvd. ....gal. .586 - —
medium grade (200°-246°), dms., 20 Cal., ref..gal. .50 - —
Sewaren, N. J., ref. gal. .636 - —
1-10, Cal. ref....gal. .570 - —
Sewaren, N. J., ref. gal. .696 - —
tanks, dlvd. .....gal. .646 - —
Crotonic, bbls., Canadian, wks. lb. .25 - —
Dichlorophenoxyacetic, fib. dms., c.l., works..lb. .80 - —
l.c.l., works .....lb. .85 - .95
Diethylbarbituric (see Barbital).
F (see Acid, monosulphonic).
Formic, 85%, cbys., c.l., wks.lb. .12 - —
l.c.l., works.....lb. .12½- .14½
90%, cbys., c.l., works ...lb. .12½- —
l.c.l., works.....lb. .13 - .14½
Fumaric, tech., bbls., dm ..lb. .27 - .31
Gallic NF V, 1,000-lb. lots, bbls..lb. 1.40 - —
smaller lots.....lb. 1.43 - 1.45
technical, bbls., 1,000-lb. lots. lb. 1.23 - —
smaller lots.....lb 1.26 - 1.28
Gamma, bbls.....lb .97 - —
Gluconic, tech., 50%, bots...lb .23 - .31
dms. .....lb .14 - —
kgs. .....lb .16 - —
Glycolic (see Acid, hydroxyacetic).
H, bbls., works.....lb .50 - —
Hydriodic, 45-47%, cbys.....lb. 2.52 - 2.54
57%, cbys.....lb. 2.83 - 2.85
Hydrobromic, medicinal, 48%, cbys., dlvd. E..lb. .48 - —
tech., 48%, cbys., same basis. lb. .45 - —
34%, cbys., same basis...lb. .35 - .37
Hydrochloric (see Acid, Muriatic).
Hydrocyanic, cyls., works...lb. .80 - 1.00
NF, dilute, 2%, 5-lb. lots..lb. .30 - .40
Hydrofluoric, anhyd., cyls., wks. lb. .19 - .19½
dmjn. .....lb. .21 - .23
tanks, works.....lb. .16 - —
30%, rubber dms., works..lb. .08 - .09
48%, rubber dms., works..lb. .12 - —
52%, rubber dms., works..lb. .12½- —
60%, rubber dms., works..lb. .13½- —
Hydrofluosilicic, 30-35%, bbls.lb. .08 - .09
Hydroxyacetic, 70%, tech., bbls., non-return, Phila..lb. .084 - —
tanks, Belle, W. Va., acid basis..lb. .085 - —
Hypophosphorous, USP, djns.lb. .75 - .77
Lactic, edible, 50%, bbls., 20 or more..lb. .14½- —
smaller lots.....lb. .15 - —
80%, bbls., 5 or less.....lb. .24¼- .24¾
plastic grade, 50%, bbls., 20 or more..lb. .17¾- —
10 or less.....lb. .18¼- —
80%, bbls., 5 or less.....lb. .31¾- .32¼
tech., 22%, bbls., c.l., works. 100 lbs. 4.40 - —
l.c.l., works....100 lbs. 4.80 - —
cbys., works.....100 lbs. 5.30 - —
44%, bbls., c.l., works. 100 lbs. 8.15 - —
l.c.l., bbls., works. 100 lbs. 8.55 - —
cbys., works.....100 lbs. 9.05 - —
USP XII, 80%, cbys.....lb. .54 - .57
USP VIII, 70%, cbys.....lb. .52 - .55
Laurent's, bbls.....lb. .63 - —
Lauric, dist., 95%, dms.....lb. .37½- —
60%, dms. .....lb. .32 - —
Linseed oil, light, dms.....lb. .47¾- .48¼
Maleic, powd., dms.....lb. .26 - .30
Anhydride (see M).
Malic, powd., kgs.....lb. .47 - —
Mandelic, NF, dms., 1,000-lb. lots..lb. 2.05 - —
smaller lots.....lb. 2.10 - 2.30
Mixed, tanks, nitric unit....lb. .05 - .06
surphuric unit .....lb. .0085- .009
Molybdic, kgs., works.....lb. .95 - 1.10
Monochloracetic, tech., flakes, 96-97%, dms..lb. .17 - .18
purified, flake, 99%, dms...lb. .21 - .22½
Monosulphonic, bbls. .....lb. 1.50 - —
Muriatic, 18°, cbys., c.l., E. works..100 lbs. 1.50 - 1.70
l.c.l., E. works...100 lbs. 1.90 - 2.90
tanks, works .....ton.18.00 -18.20
20°, cbys., c.l., E. works..... 100 lbs. 1.85- 2.00
tanks, E. works.....ton.20.00 -21.00
22°, cbys., c.l., E. works... 100 lbs. 2.35 - 2.50
tanks, E. works.....ton.22.00 -26.00
CP, USP, consumers, cbys. extra...lb. .05 - —
6-lb. bots., extra.....lb. .10 - —
dealers, cbys., extra....lb. .06½- —
6-lb. bots., extra.....lb. .08½- —
Myristic, dist., dms.....lb. .40 - —
Naphthenic, 220-230 acidity, dms., extra, works..lb. .13 - —
tanks, works .....lb. .09 - —
230-240 acidity, dms., extra, works..lb. .17 - —
tanks, works .....lb. .14 - —
Neville and Winthers, dms..lb. .75 - —
Nicotinic, USP, dms., works.. kilo. 7.00 - 7.30
Nicotinic amide (see Nicotinamide).
Nitric, 36°, cbys., c.l., E. works. 100 lbs. 5.00 - —
l.c.l., 25, E. works.100 lbs. 5.30 - 6.30
38°, cbys., c.l., E. works.. 100 lbs. 5.50 - —
l.c.l., works.....100 lbs. 6.00 - 6.25
40°, cbys., c.l., E. works.... 100 lbs. 6.00 - 6.50
l.c.l., works.....100 lbs. 6.50 - 7.10
42°, cbys., c.l., E. works.... 100 lbs. 6.50 - 7.00
l.c.l., works.....100 lbs. 7.00 - 7.25
CP, USP, consumers, cbys. extra..lb. .12 - —
7-lb. bots., cs., extra..lb. .15 - —
dealers, cbys. extra....lb. .11½- —
7-lb. bots., cs., extra..lb. .13½- —
Oleic (see Oil, Red).
Oleum (see Acid, sulphuric, fuming).
Oxalic, bbls., c.l., works....lb. .13 - —
10,000 lbs. .....lb. .13½- —
smaller lots .....lb. .14 - —
Palm oil, white, dist., dms..lb. .30¼- .31
Para-aminobenzoic, cns. ....lb. 1.55 - —
Paranitrobenzoic, cns. .....lb. .80 - —
Paratoluidinmetasulphonic, bbls., works..lb. .85 - —
Peanut oil, s.d., tanks, works. lb. No prices.
Phenylacetic, bots. .....lb. 1.60 - 1.75
Phosphoric, food grade, 50% bbls., c.l., works, frt. equald..100 lbs. 4.50 - —
l.c.l., same basis..100 lbs. 5.25 - 6.25
cbys., c.l., works, frt. equald..100 lbs. 5.00 - —
l.c.l., works, frt. alld.. 100 lbs. 6.00 - 7.50
75%, bbls., c.l., works, frt. equald..100 lbs. 5.25 - —
cbys., c.l., works, frt. equald..100 lbs. 5.00 - —
l.c.l., frt. alld....100 lbs 7.75 - 8.75
tanks, works, frt. equald.. 100 lbs. 4.65 - —
USP, 100-lb. cbys., c.l....lb. .10½- —
10 cbys. to c.l.....lb. .11½- —
2 to 9 cbys.....lb. .12 - —
single cbys. .....lb. .13 - —
70-lb. cbys. .....lb. .10¼- —
25 cbys. to c.l.....lb. .11½- —
5 to 24 cbys.....lb. .12 - —
1 to 4 cbys.....lb. .13 - —
dilut., 10%, cbys., djns..lb. .07 - .07½
Picramic, bgs.....lb. .65 - .70
Picric, bbls. .....lb. .30 - .31
Propionic, nat., dms., works..lb. .15 - —
tanks, works.....lb. .14 - —
synth., pure, dms., works..lb. .22 - —
tanks, works.....lb. .21 - —
Pyrogallic, tech., bbls.....lb. No prices
N.F., cryst., dms.....lb. 2.50 - 2.55
resub., dms. .....lb. 3.00 - 3.02
Pyroligneous, bbls., incl., ex whse., l.c.l...gal. .41 - —
Ricinoleic, com'l split (see Acid, castor oil, split.)
Salicylic, tech., bbls., c.l.....lb. .31 - —
smaller lots.....lb. .33 - —
USP, bbls., c.l.....lb. .40 - —
smaller lots.....lb. .47 - —
Sebasic, tech., dms., c.l., works. lb. No stocks
Soybean oil, s.d., dms., works. lb. .30 - —
Stearic, double pressed, bgs..lb. .29½- .30½
single pressed, bgs.....lb. .29 - .30
triple pressed, bgs.....lb. .32½- .33½
Succinic, bbls. .....lb. .87 - .90
Sulphanilic, CP, bots., works.lb. 1.60 - 1.63
tech., dms., works.....lb. .17 - —
Sulphuric, 60°, cbys., c.l., E. works..100 lbs. 1.35 - 1.40
l.c.l. .....100 lbs. 1.70 - 2.00
tanks, E, works.....ton.13.00 -13.50
66°, cbys., c.l., E. works.. 100 lbs. 1.55 - 1.70
tanks, E. works.....ton.16.50 -17.50
98°, tanks, works.....ton.17.50 -18.50
CP, USP, consumers cbys., extra..lb. .08 - —
9-lb. bots., cs., extra..lb. .10 - —
dealers, cbys., extra....lb. .06½- —
9-lb. bots., cs., extra..lb. .08½- —
fuming, 20%, tanks, E. works. ton.19.50 -20.50
Tannic, tech., bbls., dms..lb. .88 - .94
USP, fluffy, bbls., 1,000-lb. lots..lb. 1.45 - —
smaller lots .....lb. 1.47 - 1.50
powder, bbls., 1,000-lb. lots. lb. 1.25 - —
smaller lots .....lb. 1.27 - —
Tartaric, USP, cryst., gran., powd., bbls., 10,000 lbs., 1 ship't..lb. .49¼- —
smaller lots, bbls..lb. .50 - —
dms. .....lb. .52 - .53
kgs. .....lb. .50½- —
Thioglycolic, refined, bbls., cbys., basis 100%..lb. 1.95 - 2.00
tech., bbls., cbys.....lb. 1.40 - —
Tobias, bbls. .....lb. .60 - —
Trichloroacetic, bots. .....lb. 2.00 - 2.50
Tungstic, CP, 100-lb. pkgs..lb. 2.10 Nom.
pure, 100-lb. kgs.....lb. 2.50 - Nom.

Aconite leaves, bls.....lb. .75 - .90
Root, bls. .....lb. 1.10 - 1.15
Aconitine, amorph., mild, bots.oz.32.50 - —
cryst., potent, bots.....oz.85.00 - —
Acrylonitrile, dms., c.l., works lb. .29½- —
l.c.l., works .....lb. .30½- .45½
tanks, works.....lb. .28½- —
Adeps lanae, USP, anhyd., cosmetic, dms., works.lb. .27 - .30
pharmaceutical, dms., works. lb. .25 - .27
Adonis vernalis herb, bls.....lb. .65 - .70
Agar .....lb. 2.75 - 3.00
Agaric, white, bls.....lb. 2.75 - 3.00
Agrimony herb, bls.....lb. .40 - .45
Albumen, blood, dark (see Blood, soluble).
light, dms., l.c.l.....lb. .70 - —
egg, edible, cryst., gran., bbls. lb. 1.90 - 2.00
powd., bbls. .....lb. 1.95 - 2.05
tech., cryst., bbls.....lb. 1.15 - 1.80
Alcohol, allyl, dms., c.l., dlvd.lb. .21½- —
l.c.l., dlvd. .....lb. .22 - —
tankcars, dlvd. .....lb. .20 - —
Amyl ex pentane, dms., c.l., frt. alld. U. of Miss R. lb. .161 - —
l.c.l., frt. alld.....lb. .171 - —
tanks, frt. alld.....lb. .151 - —
(see also Fusel oil, ref.).
Benzyl, cns. .....lb. .70 - .75
dms. .....lb. .65 - —
Butyl, normal, ferment, Ill., Ind. prod., dms., c.l., frt. alld..lb. .30½- —
l.c.l., frt. alld. E...lb. .31½- —
tanks, frt. alld. E...lb. .29 - —
tankwagon, frt. alld..lb. .29½- —
other production, dms., c.l., frt. alld. E..lb. .30½- —
l.c.l., frt. alld. E....lb. .31½- —
tanks, frt. alld. E....lb. .29 - —
synthetic, dms., c.l., frt. alld. E..lb. .15½- —
l.c.l., frt. alld. E....lb. .16 - —
tanks, frt. alld. E....lb. .14½- —
Normal butyl alcohol prices in West, ½c. per lb. higher.
secondary, dms., c.l., dlvd.lb. .11 - —
l.c.l., dlvd.....lb. .11¼- —
tanks, dlvd. .....lb. .09½- —
tertiary, denat., dms., c.l..lb. .12½- —
l.c.l., dms. .....lb. .13 - —
tanks .....lb. .11 - —
Capryl, dms., c.l., works....lb. .17½- —
l.c.l., works.....lb. .18½- —
tanks, works.....lb. .16 - —
Cetyl, dom., CP., fiber ctns., 1,000 lbs..lb. 2.25 - —
smaller lots.....lb. 2.30 - 2.55
Cinnamic, bots. .....lb. 3.00 - —
Denatured, CD14, dms., c.l., works, E..gal. 1.04½- —
l.c.l., works, E.....gal. 1.07½- 1.11½
tanks, E., dlvd.....gal. .97½- —
Tankcar sales require written authorisation by Alcohol Tax Unit.
SD1, 190 pf. dms., c.l., E. works..gal. 1.05 - —
l.c.l., works, E.....gal. 1.08 - 1.12
tanks, E. works.....gal. .98 - —
Anhydrous 7c. per gal. higher.
SD2B, dms., c.l., wks., E.gal. 1.05 - —
l.c.l., works, E.....gal. 1.08 - 1.12
tanks, E., works.....gal. .98 - —
SD23H, dms., c.l.....gal. 1.03¼- —
l.c.l., works, E.....gal. 1.06¼- 1.16¼
tanks, E. works.....gal. .96½- —
SD29, denatured, with acetaldehyde, dms., c.l., E. works. gal. 1.06 - —
l.c.l., works, E.....gal. 1.09 - 1.14
tanks, E. works.....gal. .98 - —
When any of the several SD39 denaturants is supplied by the purchaser, the prices are the same as those of SD21 plus 1½c. per gal. denaturing charge.
Special solvent, dms., c.l., works, E..gal. 1.05½- —
l.c.l., works, E.....gal. 1.08½- 1.12½
tanks, E. works.....gal. .98½- —
tankcar sales require written authorisation by Alcohol Tax Unit.
Diacetone, acetone-free, dms., c.l., dlvd..lb. .13 - .15½
l.c.l., dlvd. .....lb. .13½- .16¼
tanks, dlvd. .....lb. .11½- .14
tech., dms., c.l., dlvd.....lb. .14½- —
l.c.l., dlvd. .....lb. .15½- —
tanks, dlvd. .....lb. .13 - —
Ethyl, 190 pf., dms., c.l., works. gal.18.15 - —
l.c.l., works .....gal.18.19 -18.24
tanks .....gal.18.08 - —
absolute, dms., c.l., wks...gal.19.12 - —
l.c.l., works .....gal.19.16 -19.21
tanks .....gal.19.05 - —
Ethylhexyl, dms., c.l., works.lb. .25 - —
l.c.l., works .....lb. .26 - —
tanks, works .....lb. .24 - —
Furfuryl, tech., cns., works.lb. .35 - —
dms., c.l., works.....lb. .22½- —
l.c.l., works .....lb. .25 - —
tanks, works .....lb. .19 - —
Isoamyl (see Carbinol, isobutyl).
Isobutyl, refd., dms., works.lb. .13 - —
tanks, works .....lb. .12 - —
Isopropyl, refd., 91%, dms., incl., c.l., dlvd..gal. .44 - .47½
l.c.l., dlvd. .....gal. .47 - .50¾
tanks, dlvd. .....gal. .37 - .38
99%, dms., incl., c.l., dlvd.gal. .47½- .50½
l.c.l., dlvd. .....gal. .50½- .53
tanks, dlvd. .....gal. .40½- —
Methyl (see Methanol).
Methylamyl (see Carbinol methylisobutyl).
Octyl, perfumer's grade, bots.lb. 4.00 - 4.25
Phenylethyl, dms. .....lb. 2.30 - 3.50
Polyvinyl, type A, fiber-pack, Niagara Falls..lb. .65 - .70
type B, fiber-pack, same basis. lb. .60 - .68
Propyl, normal, dms., works, gal. .82 - —
tanks, works .....gal. .75 - —
Tetrahydrofurfuryl, cns., Cedar Rapids, Ia...lb. .47 - —
dms., c.l., Waverly, N. Y..lb. .40 - —
l.c.l., same basis.....lb. .44 - —
tanks, same basis.....lb. .36 - —
Aldol, dms., works.....lb. .15 - —
denaturing grade, dms....gal. 1.30 - —
Aletris root, bgs.....lb. 2.00 - 2.25
Algarobilla, c.l., ex dock.... long-ton. No prices.
Algin, bbls., fib. dms.....lb. .76 - 1.00
Alizarin (see Red, alizarin).
Alkanet, root, bgs.....lb. .75 - .80
Allspice, Mexican, futures, bgs. lb. .16 - .16½
Allyl bromide, cbys., 5,000 lbs., works...lb. .90 - —
smaller lots, works.....lb. 1.05 - 1.10
Chloride, dms., c.l., dlvd....lb. .14 - —
l.c.l., dlvd. .....lb. .14½- —
tanks, dlvd. .....lb. .12½- —

Aloe, Cape, cs.....lb. .39 - .40
Curacao, kgs.....lb. .42 - .43
Socotrine, kgs.....lb. .47 - .48
Aloin, bbls., dms., kgs.....lb. 4.20 - 4.50
Alphanaphthol, bbls.....lb. .57 - .58
Alphanaphthylamine, bbls....lb. .35 - .35¼
Alphanaphthylthiourea, fib. dms., works, frt. alld..lb. 4.00 - 4.40
Alphapicoline, ret. dms., works, frt. equald..lb. .24 - .27½
Alphapinene, wks., South, tanks, gal. 1.15 - —
Alphaterpineol, dms., c.l., works, lb. .1340- —
l.c.l., works.....lb. .1390- —
tanks, works.....lb. .1200- —
Alphatocopherol, ampuls....kilo.750.00 - —
Althea root, NF, peeled, bls..lb. .40 - .45
Alum, ammonia, burnt, USP, bbls., kgs..lb. .16 - .18
gran., bbls., works....100 lbs. 4.00 - —
lump, bbls., works....100 lbs. 4.25 - —
powd., bbls., works...100 lbs. 4.40 - —
Potash, gran., bbls., works.... 100 lbs. 4.25 - —
lump, bbls., works....100 lbs. 4.50 - —
powd., bbls., works....100 lbs. 4.65 - —
Potash-chrome, bbls.....lb. .12½- .15
Soda, bbls., c.l., works.100 lbs. 3.25 - —
l.c.l., dlvd.....100 lbs. 4.25 - 5.00
Alumina, classified, grade, grd., kgs., works..lb. .35 - .37
top grade, ground, kgs., works. lb. .60 - .67
unclassified, ground, kgs., works..lb. .10½- .40
Acetate, basic solution, 24%, bbls., l.c.l., works..lb. .11 - —
20%, bbls., l.c.l., works.lb. .10 - —
Chloride, anhyd., com'l, dms., c.l., works..lb. .10 - .11
l.c.l., works.....lb. .10¼- —
cryst., com'l, dms., c.l., works. lb. .09 - —
l.c.l., works.....lb. .06½- .06¾
Alumina chloride, solution, 32°, cbys., c.l., works..lb. .02¾- —
l.c.l., works.....lb. .03¼- —
Fluoride, tech., bbls.....lb. .25 - —
Formate, solution, 12-20° Be. bbls.. c.l., works, f.o.b. equaled Phila. and Chi.lb. .09½- —
l.c.l., works, same basis. lb. .10 - —
Hydrate, heavy, bgs., c.l., works..ton.56.00 - —
l.c.l., works.....ton.76.00 - —
light, bgs., dlvd.....lb. .17 - —
Hydroxide, gel tech., min. 15% lbs. or more, f.o.b. ship't point..lb. .03 - .03½
ton lots, same basis..lb. .03¼- .03¾
smaller lots, same basis. lb. .03¾- .04
9-9½% Al_2O_3, fib. dms., works..lb. .17¾- —
contract, works.....lb. .16¾- —
14-15% Al_2O_3, fib. dms., Al $(OH)_3$, dms., 10,000 wks..lb. .20¾- —
contract, works.....lb. .19¾- —
dried, USP XIII, fib. dms., works..lb. .78 - —
contract, works.....lb. .75 - —
powder, tech. (see Alumina hydrate).
USP IX, bbls., dms.....lb. .15 - .17
Laurate, precip., bbls.....lb. .25 - .26
Naphthenate, 1.7% Al, 50-gal. dms., works..lb. .19 - —
Oleate, dms., contract.....lb. .43½- —
Resinate, precip., dms.....lb. .20½- —
Stearate, dibasic, etns., c.l..lb. .46 - —
l.c.l. .....lb. .47 - —
monobasic, etns., c.l. ....lb. .44 - —
l.c.l. .....lb. .47 - —
tribasic, etns., c.l. .....lb. .51 - —
less ton quantities.....lb. .53 - —
Alumina sulphate, com'l, bgs., c.l., works, frt. equald.100 lbs. 1.15 - 1.30
l.c.l., works, frt. equald. 100 lbs. 1.40 - 1.50
bbls., c.l., works frt. equald. 100 lbs. 1.55 - 1.60
l.c.l., works, frt. equald.. 100 lbs. 1.95 - 2.00
iron-free, bgs., c.l., works.. 100 lbs. 1.95 - 2.25
l.c.l., works.....100 lbs. 2.35 - 2.50
Trihydrate, heavy (see Alumina hydrate).
Aluminum, ingots, 98-99%, 10,000 lbs..lb. .15 - —
l.c.l. .....lb. .15 - .16
paste, lining, extra fine, 200-lb. dms..lb. .56 - .60
ink, 150-lb. dms.....lb. .71 - —
standard, 200-lb. dms.....lb. .88 - —
powder, lining, extra fine, 150-lb. dms..lb. .93 - —
litho, 150-lb. dms.....lb. .60 - —
standard, 200-lb. dms..lb. .62 - —
rubber comp., 200-lb. dms..lb. .42 - —
unpolished, stand., dms....lb. .38 - —
varnish, stand., 300-lb. dms., lb. .42 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dm., 1½c. per lb. for 50-lb. dm., 3c. per lb. for 10-lb. can, and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,490 lbs., 2c. for 1,500 to 4,990 lbs., 3c. for 5,000 to 20,000 lbs., and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier, transportation rate will be made from sellers' invoice on orders of 200 lbs. or over.

Ambergris, gray, tins.....oz. 8.50 -12.00
Aminoethylpropanol, cns., dms., works..lb. .50 - .60
Aminopyrine, bots., dms.....lb. 4.50 - 4.75
Ammonia acetate, reagent, crystals, bbls..lb. .34 - —
purified, bbls.....lb. .32 - —
Anhydrous, fertilizer, tankcars, works, frt. equald..ton.59.00 - —
pure, cyls., extra.....lb. .16 - —
refrigeration, tanks, works.. ton.61.50 - —
Aqua, dms., c.l., works.....lb. .06 - .06¼
l.c.l., works.....lb. .06½- —
tanks, works (NH_3 content). ton.65.00 - —
Benzoate, USP, dms., kgs., 4,000 lbs., up, frt. alld..lb. .43 - —
smaller lots, frt. alld..lb. .44 - .47
Biborate, gran., powd., bbls., c.l., works..ton.332.00 - —
ton lots, works.....ton.338.50 - —
less ton lots, works..ton.342.50 - —
Bicarbonate, dms., extra, c.l. lb. .06¾- —
Bichromate, bbls., works....lb. .26 - .30
Bifluoride, bbls .....lb. .15 - .15½
Bromide, gran., NF, bbls....lb. .28 - —
dms. .....lb. .29 - .33
Powdered ammonia bromide 10c. per lb. higher.
Carbonate, USP, lump, dms.lb. .06¼- .06½
powdered, 1c. per lb. higher.
Chloride, tech. (see Ammoniac, sal).
USP, gran., bbls., dms., kgs., lb. .13 - .15
Citrate, dibasic, bbls.....lb. .75 - —
dms. .....lb. .80 - .85
Fluoride, bbls.....lb. No stocks
Hydroxide (see Ammonia aqua).
Hypophosphite, NF, dms....lb. 1.25 - 1.27
Iodide, NF, jars.....lb. 3.90 - 3.96
Linoleate, 80%, plastic, dms., works..lb. .40½- —
kgs., works .....lb. .42½- —
Molybdate, c.p., cryst., kgs.lb. 1.26 - 1.30
fine cryst., bbls., kgs....lb. .84 - .87
purified, dms. .....lb. 1.10 - 1.12
Nitrate, fertilizer grade, Canadian, 32.5% nitrogen, bgs., same N unit price, delivered, as Ammonia sulphate, bgs., c.l., shipping point....ton.67.00 - —
bulk, same basis.....ton.51.00 - —
tech., bgs., works....100 lbs. 4.35 - 4.50
bbls., works .....100 lbs. 4.55 - —
Nitrate-limestone, 20.5% N, bgs. Hopewell, Va..ton.33.00 - —
Oleate, dms. .....lb. .14 - —
Oxalate, fine gran., bbls....lb. .23 - —
dms. .....lb. .25 - .29
Pentaborate, gran., bbls., c.l., works..ton.230.00 - —
ton lots, works.....ton.248.50 - —
less ton lots.....ton.253.50 - —
Ammonia pentaborate powder. $10 per ton higher.
Perchlorate, kgs. .....lb. No stocks.
Persulphate, kgs. .....lb. .25½- .26½
Phosphate, dibasic, NF V, bbls. kgs..lb. .37 - .39
tech., bgs., c.l., works..lb. .07 - —
l.c.l., works .....lb. .07¾- —
monobasic, pure, bbls.....lb. .39 - .41
tech., bgs., c.l., works..lb. .07 - —
l.c.l., works .....lb. .07¾- .08¾
Salicylate, NF, dms., kgs..lb. 1.35 - —
Silicofluoride, bbls. .....lb. .15 - .16
Stearate, anhydrous, dms...lb. .34 - —
paste, dms.....lb. .06½- —
Sulphamate, bbls., dms., works. lb. .13 - .20
Sulphate, bulk, producing ovens. ton.30.00 -32.00
Sulphide, liquid, 40-45% basis. 100%, dms., c.l., works.lb. .09 - —
l.c.l., dlvd. .....lb. .15 - —
tanks, dlvd. .....lb. .07½- —
red, 48%, cbys., works.....lb. .03 - —
dms., works .....lb. .04 - —
yellow, 33%, cbys., works..lb. .03 - —
dms., works .....lb. .04 - —
Sulphocyanide, pure, bbls....lb. .60 - .65
tech., bbls. .....lb. .17 - .19
Thiocyanate (see Ammonia sulphocyanide).
Thioglycollate, highly purified, 100% basis, bbls..lb. 7.10 - 8.25
Ammoniac gum (see Gum, ammoniac).
Sal, gray, bbls., c.l., works.. 100 lbs. 7.00 - —
l.c.l., works.....100 lbs. 7.40 - —
white, gran., bbls., c.l., works. 100 lbs. 4.75 - —
l.c.l., same basis.100 lbs. 5.00 - —
Amyl acetate, ex fusel oil, tech., dms., c.l., dlvd..lb. .23½- —
l.c.l., dlvd. .....lb. .24½- —
tanks, dlvd. .....lb. .24 - —
ex-pentane, dms., c.l., frt. alld. E. of Miss. R..lb. .22 - —
l.c.l., same basis.....lb. .23 - —
tanks, same basis.....lb. .21 - —
Alcohol (see Alcohol, amyl).
Butyrate, dms. .....lb. .90 - 1.00
Chloride, mixed, tech., dms., c.l., works..lb. .07 - —
l.c.l., works .....lb. .08 - —
tanks, works .....lb. .06 - —
Ether, dms., c.l., works.....lb. .095 - —
l.c.l., works .....lb. .102 - —
tanks, works .....lb. .085 - —
Nitrite, USP, bots.....lb. 1.72 - 1.95
Mercaptan, dms., works.....lb. 1.10 - —
Salicylate, cns. .....lb. .77 - 1.27
Stearate, dms., works.....lb. .42 - .45½
Anethol, com'l, dms., works..lb. .657 - .665
NF, dms. .....lb. .82 - .90
Angelica dom., atropurpurea root, bls..lb. 1.15 - 1.20
imported, natural, bls.....lb. 1.50 - 1.60
Angostura bark, bls.....lb. .55 - .60
Anilin oil, dms., c.l., works, frt. alld..lb. .13 - —
l.c.l., works, frt. alld...lb. .14 - —
tanks, works, frt. alld....lb. .12 - —
Salt, dms., works.....lb. .22 - .24
Anise, Argentine, bgs.....lb. .30 - .31
Chinese, Star.....lb. .15½- .16
Cyprus, bgs. .....lb. .30 - .31
Mexican, bgs.....lb. .32 Nom.
Syrian, bgs. .....lb. .30 - .31
Turkish, bgs.....lb. No stocks
Anisic aldehyde, dms.....lb. 2.60 - 2.75
cns., bots. .....lb. 2.80 - 2.95
Annatto, paste, bxs.....lb. .34 - .39
seed, bgs. .....lb. .19 - .20
Anthracene, 80-85%, bbls., works, lb. .60 - —
90%, bbls., works.....lb. .81 - —
Anthraquinone, 99.5%, bbls...lb. .70 - —
Antimony butter (see Antimony chloride).
Chloride, solut., cbys.....lb. .17 - —
Metal, bulk, c.l., mines.....lb. .33 - .33½
Needle, Bolivian, brown, 67% cs..lb. No prices.
Chinese, black, 70%, cs....lb. No prices.
Oxide, ceramic grade, bgs., c.l., works..lb. .26 - .27½
l.c.l., works.....lb. .28¼- .28½
paint grade, bgs., c.l., works. lb. .27½- .31
l.c.l., works.....lb. .28¾- .32¾
Salt, 65%, bgs., c.l., dlvd. E. of Miss. River..lb. No stocks
Sulphide, 65-70%, bbls., c.l., works..lb. .22 - —
l.c.l., works.....lb. .24 - —
Antipyrine, bbls., kgs., ton...lb. 2.00 - —
smaller lots.....lb. 2.10 - 2.20

"That settles it!"

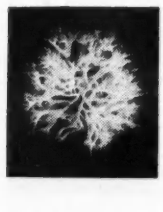
SHE BOUGHT YOUR PRODUCT
BECAUSE SHE SAW IT
ADVERTISED OR ITS
ATTRACTIVE PACKAGE
APPEALED TO HER. BUT IF,
WHEN IT'S *USED*, IT HAS A WATERY,
"SETTLED OUT" OR CURDLED APPEARANCE,
YOU'RE OUT OF LUCK ON
PROFITABLE REPEAT SALES

Many manufacturers, alert to this fact, are now improving their products with Kraystay. This remarkable vegetable stabilizer gives many products an *even* and *lasting* distribution of color and body.

Kraystay has unusual stabilizing, emulsifying and suspending effects. Used in a more concentrated solution, thickening or gelling can be accomplished. Kraystay is adaptable for use in cream lotions, hand lotions, toothpaste, cosmetics, pharmaceuticals, foods, and many other products of *medium* or *low* acidity.

Find out more about Kraystay. Call or write today, stating the nature of your product. Or, if you wish to submit your formula, Kraft technicians will be glad to assist you in the application of Kraystay to it. Kraft Foods Company, Dept. Y-13, 500 Peshtigo Court, Chicago 90, Illinois.

FROM TINY FRONDS OF CARRAGEEN *(edible Irish moss) gathered from the cold ocean floor, Kraft extracts a clear, pure vegetable gelose for use in the manufacture of Kraystay. Modern scientific laboratory control insures the uniform high quality of this consistently efficient stabilizer.*



A NEW DEVELOPMENT IN VEGETABLE STABILIZERS

Kraystay

MADE BY KRAFT

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ACETIC ACID
GLACIAL

BUTYL ALCOHOL

CITRIC ACID, U.S.P.

ETHYL ACETATE

HYDROGEN PEROXIDE

MONOETHANOLAMINE

PARADICHLORBENZENE

POTASSIUM BICHROMATE

PROPYLENE GLYCOL

SULFAMIC ACID

TRIETHYLENEGLYCOL

WILLIAM D. NEUBERG CO., INC.

Chemicals

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TELEPHONE LEXINGTON 2-3324

CABLE—"WILNEUBERG"

Apomorphine, bots.....oz. 23.20 -23.70
Archil extract, bbls.....lb. No stocks.
Areca nuts, powd., bbls.....lb. .24 - .29
Arecoline hydrobromide, bots.oz. 6.10 - 7.10
Argols, min. 70%, bgs., shipment ports, 100 kilos (100% purity). lb. 35.00 -36.00
Arnica flowers, bbls.....lb. 2.10 - 2.20
Arrowroot, powd., bgs., bbls..lb. .14 - .15
Arsenic, chloride (arsenous), bots. lb. 1.55 - —
Metal, lump, c.l.....lb. No prices.
Sulphide, yellow, bbls.....lb. No stocks.
Trioxide (see Acid, arsenous).
White, powd., bbls., c.l.....lb. .06 - —
l.c.l. .....lb. .07 - .08
Asafetida, cs. .....lb. .65 - .70
powd., bbls., dms.....lb. .72 - .77
Asbestine (see Talc, N. Y. fibrous).
Asbestos, fiber, 5D and 5K, bgs., c.l. (20 tons), Cana. mines, ton. 65.00 - —
5R, bgs., c.l. (20 tons), same basis..ton. 58.00 - —
6D, bgs., c.l. (30 tons), same basis..ton. 43.00 - —
7D, bgs., c.l., same basis.ton. 38.50 - —
7F, bgs., c.l., same basis.ton. 26.50 - —
7K, bgs., c.l., same basis.ton. 25.00 - —
7M, bgs., c.l., same basis.ton. 22.50 - —
7R, bgs., c.l., same basis.ton. 21.50 - —
Barbados, Dunellen, N. J....lb. .10½- —
California, dms., c.l.....ton. 36.40 - —
l.c.l. .....ton. 41.40 - —
Cuban, A, bulk, c.l.....ton. 60.00 - —
l.c.l .....ton. 90.00 - —
B, bulk, c.l.....ton. 38.50 - —
l.c.l. .....ton. 55.00 - —
Egyptian .....ton. No stocks.

Asphaltum, gilsonite, brilliant, black, selects, 340° F fusing point, bgs., mines... ton. 30.00 -32.00
270-295° fusing point, bgs., mines..ton. 30.50 - —
seconds, 300-390° F fusing point, not uniform, bgs., mines..ton. 25.50 - —
jet, bgs., ton lots, gross weight, Colo. mines..ton. 30.50 - —
Manjak, No. 10, crude, dms., works..lb. .05½- .12
process, form, bgs., works.lb. .05¾- .12
jet, bgs., 2,000 lbs., gross weight, Colo. mines..ton. 30.50 - —
Mexican, refd., dms., f.o.b. Tampico, Mex.metric ton. 27.50 - —
South American, refd., dms., c.l., N. J. Refy..ton. 22.00 -23.00
l.c.l., same basis.....ton. 24.00 -25.00
tanks, same basis.....ton. 15.00 - —
Atropine, bots.....oz. 10.65 - —
sulphate, bots. .....oz. 8.75 - —

B

Balm of Gilead buds, bgs.....lb. 2.25 - 2.50
Barbasco root (see Cube root).
Barberry, root bark, bgs.....lb. .78 - .80
Barbital, dms. .....lb. 3.50 - 3.60
sodium, dms. .....lb. 3.75 - 3.85
Barium carbonate, precip., bgs., 10 tons and up, works..ton. 67.50 -75.00
small lots, works..ton. 74.50 -82.00
Chlorate, kgs., works.....lb. .27½- .31
Chloride, CP, cryst., bbls....lb. .25 - .27
pure, bbls., kgs.....lb. .10 - .12
tech., cryst., bgs., c.l., works, ton. 80.00 - —
l.c.l., works.....ton. 90.00 - —
Barium dioxide, c.l., dms., works. lb. .11½- —
l.c.l., works.....lb. .13 - —
Fluoride, bbls.....lb. .14 - —
Hydrate, crystals, bgs.....lb. 06 - .06½
Hydroxide, bbls., works.....lb. .19 - —
Iodide, bots. .....lb. 5 12 - —
Monoxide (see Oxide).
Nitrate, bbls., c.l., works....lb. .11½- —
l.c.l., works.....lb. .13 - —
Oxide, dms., c.l., works.....lb. .10 - —
l.c.l., works.....lb. .10½- —
grd., dms., l.c.l., works...lb. .15 - .17
Peroxide (see Dioxide).
Silicofluoride, bbls. .....lb. .17 - .19
Stearate, ctns., 1 ton up....lb. .50 - —
smaller lots.....lb. .51 - —
Sulphate, tech. (see Barytes, and Blanc fixe).
X-ray, bbls. .....lb. .10 - 10½
kgs. .....lb. .12½- —
Sulphide, dms., works...ton. 45.50 -64.00
Barytes, water-grd., paper bgs., c.l., St. Louis..ton. 31.10 - —
l.c.l., same basis.....ton. 32.10 - —
ex whse., N. Y.....ton. 41.95 - —
Southern, off-color, bgs., mines, ton. 19.00 - —
95.75%, bgs., mines.....ton. 20.00 - —
Ore, approx. 94% $BaSO_4$, bulk, mines..ton. 8.50 -12.50
Bay leaves (see Laurel leaves).
Barberry bark, bgs.....lb. .12 - .13
Belladonna leaves, bls.....lb. 2.20 Nom.
Root, bls. .....lb. 1.75 Nom.
Bauxite, bulk, mines.....ton. 8.50 -10.00
Bentonite, 200 mesh, bgs., works, ton. 40.00 - —
Benzaldehyde, NF, dms.....lb. .68 - .80
tech., cbys., dms.....lb. .45 - .55
Benzene (see Benzol).

Benzine hexachloride, tech., 10% gamma, bgs., dms., c.l., works..lb. .50 - .52
l.c.l., works .....lb. .55 - .58
dust, dry, 50%, dms., c.l., works..lb. .43 - —
l.c.l., works .....lb. .45 - —
wet, 50%, dms., c.l., works. lb. .44 - —
l.c.l., works .....lb. .46 - —
Benzidin base, bbls.....lb. .77 - —
Benzocaine, cns.....lb. 3.50 - 3.85
Benzol (benzene), pure, nitration and 90%, dms. ret., works, frt. alld. up to 2c. gal. .24 - —
tanks, E. of Omaha, same basis..gal. .19 - —
W. Coast, Minnequa, Colo., same basis..gal. .19 - —
Benzophenone, dms. .....lb. 1.10 - 1.60
Benzoyl chloride, cbys.....lb. .25 - .28
Peroxide, pure, gran., fib. ctns., works..lb. .90 - 1.00
Benzyl acetate, f.f.c., cns....lb. .75 - —
dms. .....lb. .60 - .65
Alcohol (see Alcohol, benzyl).
Benzoate, f.f.c., cns., dms...lb. 1.00 - 1.40
Chloride, refined, cbys.....lb. .22 - —
tech., cbys., works, frt. equald..lb. .20½- —
Cinnamate, cns.....lb. 3.85 - 4.00
Formate, cns. .....lb. 1.95 - 3.50
Propionate, bots. .....lb. 1.85 - 2.30
Salicylate, bots. .....lb. 1.80 - 2.25
Benzylidinacetone, bots. .....lb. 2.00 - 2.70
Benzylisoeugenol, bots. .....lb. 9.50 - —
Berberine bisulphate, cns.....lb. No stocks
Hydrochloride, bots. .....lb. No stocks
Sulphate, cns.....lb. No stocks
Berberis root, bls.....lb. .30 - .35
Betanaphthol, resublimed, dms., works..lb. .72 - —
tech., bbls., c.l., works....lb. .23 - .28
l.c.l., works .....lb. .26 - .28
Benzoate, fib. dms., works...lb. 1.75 - —
Salicylate, dms. .....lb. 5.00 - —
Betanaphthylamine, tech., works. lb. .89 - —
Betagammapicoline, dms., c.l., works..lb. .24½- —
l.c.l., works .....lb. .25 - —
Betapicoline, 90%, ret. dms., c.l., works..lb. 1.60 - —
l.c.l., works.....lb. 1.85 - —
95% dms., works.....lb. 2.05 - —
98-99%, dms., works.....lb. 2.20 - —
Beth root, bls.....lb. .55 - .60
Bismuth chloride, jars.....lb. 4.50 - —
Citrate, USP VIII, jars.....lb. 3.12 - —
Hydroxide, dms. .....lb. 4.00 - —
Metal, ton lots.....lb. 2.00 - —
Nitrate, cryst., cns.....lb. 1.60 - —
Oxychloride, cns., dms.....lb. 3.80 - —
Oxide, anhydrous, dms.....lb. 4.20 - —
Subcarbonate, USP, dms....lb. 2.60 - 2.63
Subgallate, NF, fib. dms....lb. 2.45 - 2.48
Subiodide, fib. dms.....lb. 4.13 - —
Subnitrate, USP, powd., dms.lb. 2.15 - 2.18
Subsalicylate, USP, dms....lb. 3.05 - —
Sulphocarbolate, fib. dms....lb. 4.05 - —
Bismuth-ammonia citrate, USP, powd., dms..lb. 3.70 - —
Black, acetylene, bgs., c.l., works. lb. .14 - —
l.c.l., works.....lb. .18 - —
Bone, 1A, bgs., bbls., c.l., frt. alld. dest..lb. .21 - —
1. bgs., bbls., c.l., same basis. lb. .19 - —
2. bgs., bbls., c.l., same basis. lb. .17½- —
3. bgs., bbls., c.l., same basis. lb. .16½- —
4. bgs., bbls., c.l., same basis. lb. .15½- —
5. bgs., bbls., c.l., same basis. lb. .13 - —
6. bgs., bbls., c.l., same basis. lb. .13 - —
7. bgs., bbls., c.l., same basis. lb. .16 - —
8, bgs., bbls., c.l., same basis. lb. .17 - —
457, bgs., bbls., c.l., same basis..lb. 13½- —
490A, bgs., bbls., c.l., same basis..lb. .10 - —

Bone black, l.c.l. prices are ½c. higher than c.l. Pacific coast, ex dock, or whse., prices are 1½c. higher.

Carbon, channel, compressed. beads, bulk, c.l., works. lb. .06 - —
bgs., c.l., works.....lb. .0632- —
l.c.l., works .....lb. .07 - —
divd. or whse.....lb. .102 - —
uncompressed, regular, bgs., c.l., works..lb. .074 - —
bgs., ctns., l.c.l., divd. or whse..lb. .11¾- —
furnace, HMF, bgs., c.l., works..lb. .05 - —
ctns., l.c.l., whse.....lb. .09 - —
SRF, bgs., c.l., works...lb. .06½- —
ctns., l.c.l., whse.....lb. .075 - —
Thermotonic, bgs., c.l., works, La..lb. .04 - —
l.c.l., whse. Trenton, N. J., lb. .06½- —
Charcoal (see C).
Graphite (see G).
Iron oxide, magnetic, pure bgs., l.c.l., works..lb. .06¼- —
Lamp, 1, ctns., c.l., works..lb. .06½- —
l.c.l., works .....lb. .09 - —
2, ctns., c.l., works.....lb. .10 - —
l.c.l., works .....lb. .11 - —
2A, ctns., c.l., works.....lb. .12 - —
l.c.l., works.....lb. .13½- —
3, ctns., c.l., works.....lb. .14½- —
l.c.l., works .....lb. .15½- —
4, ctns., c.l., works.....lb. .16½- —
l.c.l., works .....lb. .17½- —
5, ctns., c.l., works.....lb. .20 - —
l.c.l., works .....lb. .20 - —
6, ctns., c.l., works.....lb. .25½- —
l.c.l., works .....lb. .27½- —
7, ctns, c.l., works.....lb. .37½- —
l.c.l., works .....lb. .38½- —
Mineral, vine type, bgs., l.c.l., works..lb. .03 - —
Vine A, bgs. .....lb. .03¾- .04
B, bgs. .....lb. .05¾- .06
Black ash (see Barium sulphide).
Black dyes (see Dyes).
Black haw, root bark, bls.....lb. .75 - .76
Tree bark, bls.....lb. .35 - .43
Black Indian hemp root, bls..lb. .55 - .60
Blanc fixe, dry, by-product, bgs., c.l., works..ton. 67.50 - —
l.c.l., works.....ton. 72.50 - —
direct process, bgs., c.l., works..ton. 77.50 - —
l.c.l., works.....ton. 82.50 - —
N. Y. whse.....ton. 95.00 - —
bbls., c.l., works.....ton. 82.50 - —
l.c.l., works.....ton. 87.50 - —
N. Y. whse.....ton. 100.00 - —
soluble, bgs., l.c.l.....lb. .17 - —
pulp, 66%, bbls., c.l., works. ton. 55.00 - —
l.c.l., same basis....ton. 60.00 - —
Bleaching powder, dms., c.l., works..100 lbs. 2.75 - 3.00
l.c.l., works.....100 lbs. 3.25 - 3.75
bbls., c.l., works.....100 lbs. 3.25 - —
l.c.l., works.....100 lbs. 3.75 - —
Blood, dried, 16-16½% ammo., bgs..unit-ton. 7.25 - —
high-grade, unground, 16-17% ammon., bulk, Chicago. unit-ton. 7.00 - —
soluble, bgs., l.c.l.....lb. .17 - —

For Chlorine in Convenient-to-Use Form Use Hooker Sulfur Chlorides

The Hooker Sulfur Chlorides, mono- and di-, provide convenient sources of chlorine in chemical processes where the use of elemental chlorine is not feasible. In these Hooker products you can always be sure of a carefully controlled chlorine content. The Monochloride contains a minimum of 50% chlorine, while the Dichloride has a minimum of 66% chlorine.

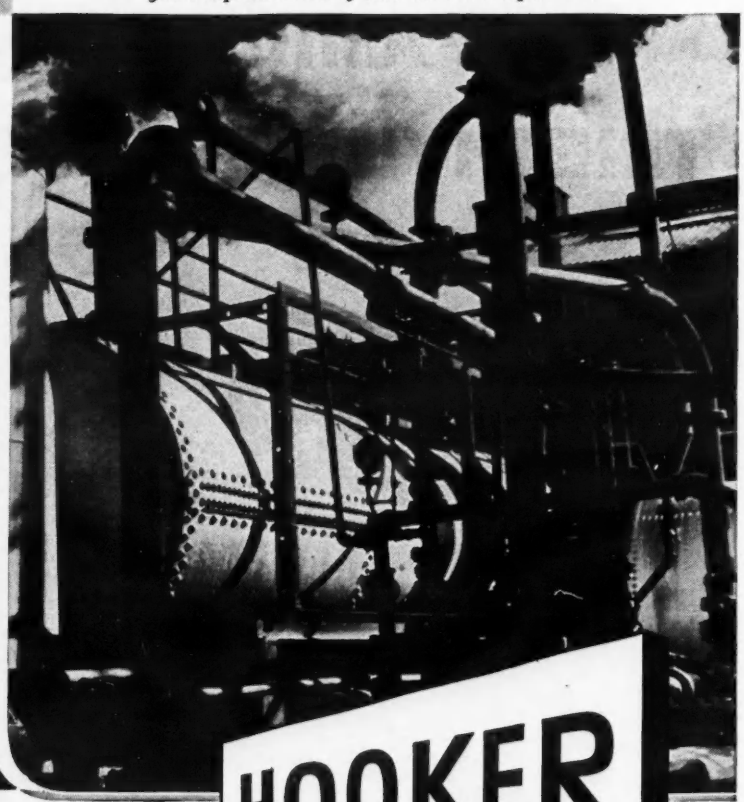
Besides the more common uses as chlorinating agents, the Sulfur Chlorides have a wide variety of possible applications in many different fields. In reactions with unsaturated hydrocarbons it is possible to introduce the sulfur or chlorine or both into the molecule.

Sulfur Dichloride may be used as a chloridizing agent in the refining of various sulfide ores; as a reagent in the manufacture of organic acid anhydrides, various rubber substitutes and other organic chemicals.

Sulfur Monochloride is also used in the manufacture of a variety of organic chemicals. It has been used as an agent for the cold vulcanization of rubber products and in the manufacture of rubber substitutes. It may be used as a solvent for sulfur and as a polymerization catalyst to increase the viscosity of fatty acids.

Hooker Bulletin 328A, "Chlorinating Agents," gives more detailed information on the possible uses of these two Hooker products as well as other Hooker Chlorinating Chemicals. Technical Data Sheets Nos. 759 and 760 describe in more detail the physical properties of the Hooker Sulfur Chlorides. Copies of these bulletins will be sent when requested on your business letterhead. Your problems in handling these Hooker Chemicals will receive the careful attention of our Technical Staff.

A part of the Hooker facilities for the production of chlorinated compounds.



HOOKER ELECTROCHEMICAL COMPANY

1 Forty-seventh St., Niagara Falls, N. Y.

New York, N. Y. • Wilmington, Calif. • Tacoma, Wash.

Caustic Soda **Muriatic Acid** **Sodium Sulfide**

Paradichlorbenzene **Chlorine** **Sodium Sulfhydrate**

HOOKER CHEMICALS

3058

Bloodroot, bls.....lb. .65 - .70
Blue, alkali, dry, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. River, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis. lb. 1.90 - —
toner, bbls., litho flushed, same basis..lb. 1.10 - —
Celestial, bbls., same basis..lb. .15 - .18
Chinese, bbls., same basis..lb. .42 - —
Cobalt, genuine, bbls., same basis..lb. 4.90 - —
imitation (see Blue, ultramarine).
Copper, phthalocyanin, full strength, bbls., same basis. lb. 3.75 - —
80%, bbls., same basis..lb. 3.00 - —
Iron (see Blue, Chinese, Milori, Potash Prussiate, and Soda).
Milori, bbls., same basis....lb. .42 - —
Peacock, fugitive, 100% color strength, same basis..lb. .52 - —
permanent toner, green shade, molybdic, bbls., same basis. lb. 3.50 - —
tungstic .....lb. 4.00 - —
Potash, CP, bbls., same basis. lb. .48 - —
Prussian, bbls., same basis. lb. .42 - —
soluble, bbls., same basis.lb. .42 - —
Soda, CP, bronze, bbls., same basis.lb. .39 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis. lb. .24 - .28
jobbing type, dry, bbls., same basis..lb. .13 - .14
regular types, dry or pulp, bbls., same basis..lb. .18 - .19
Victoria, toner, molybdic, bbls. lb. 3.75 - —
tungstic, bbls. .....lb. 3.50 - 3.55
ink toner, bbls., same basis. lb. 1.83 - —
synthetic vehicle, bbls., same basis..lb. 2.05 - —
Violet toner, molybdic, bbls., same basis..lb. 1.24 - —
tungstic, kgs., same basis..lb. 2.50 - —
Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport, 1¼c.); Miss., N. C., S. C., Tenn., Tex. (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher, Pac. Coast; Denver, Pueblo, Salt Lake City, Wichita, frt. equalized with Chicago.
Blue dyes are listed under Dyes.
Blue mass, NF, cns., tube....lb. 1.47 - 1.49
powd., bots., cns., dms.....lb. 1.50 - 1.52
Bluefing, root, bls.....lb. No stocks.
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).
Boldo leaves, bls.....lb. .11 - .12
Bone, raw bulk, Chicago....ton.75.00 -
junk, bulk, same basis..ton.50.00 -52.00
Meal, raw 4½% ammon., 50% phos., bgs., E. works.. ton.65.00 - —
Chicago, works..ton.60.00 - —
steamed, feeding grade, 1% ammon., 60% phos. bgs., E. works..ton.65.00 - —
Chicago, works....ton.65.00 - —
fertilizer grade, 3% ammon., 50% phos., bgs., E. works. ton.60.00 - —
Chicago, works....ton.60.00 - —
Phosphate, defluorinated (see D.).
Precipitated (see Calcium phosphate tribasic precip.).
Boneset leaves, bls.....lb. .17 - .18
Borage flowers, bls.....lb. .60 - .62
Borax, tech., 99½% cryst., paper bgs., c.l., works, frt. alld. ton.53.50 -56.00
ton lots, ex whse., N. Y. or Chi..ton.71.00 - —
less ton lots, same basis. ton.76.00 - —
bbls., c.l., works, frt. alld. ton.73.50 - —
ton lots, ex whse., N. Y. or Chi..ton.91.00 - —
less ton lots, same basis. ton.96.00 - —
fine gran., bulk, works..ton.44.50 -47.50
paper bgs., c.l., works, frt. alld..ton.48.50 - —
ton lots, ex whse., N. Y. or Chi..ton.66.00 - —
less ton lots, same basis. ton.71.00 - —
bbls., c.l., works, frt. alld. ton.68.50 - —
ton lots, ex whse., N. Y. or Chi..ton.86.00 - —
less ton lots, same basis. ton.91.00 - —
powdered, paper bgs., c.l., works, frt. alld..ton.53.50 - —
ton lots, ex whse., N. Y. or Chi..ton.71.00 - —
less ton lots, same basis. ton.76.00 - —
bbls., c.l., works, frt. alld. ton.73.50 - —
ton lots, ex whse., N. Y. or Chi..ton.91.00 - —
less ton lots, same basis. ton.96.00 - —
Borax packed in kgs is $40 per ton higher than borax packed in paper bags.
USP, $15 per ton higher.
Bordeaux mixt., bgs., c.l., whse., works, frt. alld..lb. .15 - .21
l.c.l., same basis.....lb. .16 - .23
Bornyl thiocyanoacetate (see Isobornyl thiocyanoacetate).
Brimstone (see Sulphur).
Bromine, purified, cs., c.l., frt. alld. E. of Rockies..lb. .21 - —
1,000 lbs., frt. alld. E. of Rockies..lb. .23 - —
single pkgs., same basis..lb. .28 - —
Brazilwood extract (see Hypernic).
Bromoform, USP, bots.....lb. 1.50 - 1.70
chys. .....lb. 1.42 - —
Bromstyrol .....lb. 4.85 - 6.25
Bronze powder, aluminum (see A).
Gold, litho., 100-lb. cans, dms., works..lb. .50 - .60
gold, moulding, 100-lb. cans, dms., same basis..lb. .80 - 1.00
printing ink, 100-lb. cns., dms., same basis..lb. .95 - 1.10
radiator, 100-lb. cns., dms., same basis..lb. .60 - .65
Broomtop, bls. .....lb. .29 - .30
Brown, iron-oxide, pure, precip., cks., works..lb. .10½- .12
Metallic, bgs., c.l., works.lb. .02½- .02¾
Sap, crystals, works.....lb. .12 - —
powdered .....lb. .13 - —
Sienna, burnt, American, bbls., works..lb. .06¼- .10¾
pap. bgs., l.c.l., same basis..lb. .04 - .04½
Italian type, bbls., works. lb. .06¾- .09¾
raw, American, bgs., l.c.l., works..lb. .05¾- .11¾
Italian type, bbls., works. lb. .11¼- .13½
Umber, burnt, American, bbls., works..lb. .06¼- —
Italian-type, bbls., works.lb. .05 - —
Turkey-type, bgs., c.l., Boston, Bethlehem, Easton, Pa.; N. Y..lb. .05½- .05¾
St. Louis, Chicago, Indianapolis, New Orleans..lb. .06½- —
Minneapolis .....lb. .0660- —
Pittsburgh .....lb. .06¼- —
Los Angeles.....lb. .07¾- —

Brown, umber, Turkey-type, bgs., c.l., Portland, San Francisco, Seattle..lb. .06¾- —
ex whse., Los Angeles. lb. .07¼- —
Portland, San Francisco, Seattle..lb. .07 - —
Vandyke, reg., bbls., works.lb. .10 - .11
special, bbls., works.....lb. .12 - —
Brucine, cns., 100 ozs.....oz. .40 - .50
Sulphate, cns., 100 ozs.....oz. .40 - .45
Bryonia root, bls.....lb. .45 - .50
Buchu leaves, bls.....lb. 1.10 - 1.15
Buckthorn bark, bls.....lb. .34 - .35
cut and sifted, bbls.....lb. .45 - .46
Berries, bgs.....lb. 1.00 - 1.10
Butyl acetate, normal, ferment, Ill., Ind., prod., dms., c.l., frt. alld. E. of Miss. R..lb. .30½- —
l.c.l., same basis..lb. .31½- —
tanks, same basis..lb. .29 - —
tankwagon, same basis. lb. .29½- —
other production, dms., c.l., same basis..lb. .30½- —
l.c.l., same basis..lb. .31½- —
tanks, same basis....lb. .29 - —
synthetic, dms., c.l., same basis..lb. .15½- —
l.c.l., same basis.....lb. .16 - —
tanks, same basis.....lb. .14½- —
secondary, dms., c.l., dlvd. E. of Miss. R..lb. .1260- —
l.c.l., same basis.....lb. .1310- —
tanks, same basis.....lb. .1150- —
Normal butyl acetate, W. of Miss. R., ½c. per lb. higher.
Aldehyde, dms., c.l., works..lb. .15½- —
l.c.l., works.....lb. .16½- —
tanks, works.....lb. .14½- —
Ether (see Ether, butyl).

Butyl lactate, dms., c.l., frt. alld. E. of Rockies...lb. .41½- —
l.c.l., same basis.....lb. .42½- —
tanks, same basis.....lb. .40 - —
Laurate, dms., works.....lb. .42 - —
Myristate, dms., works.....lb. No prices
Oleate, ref., dms., l.c.l., works. lb. .35 - —
tech., dms., c.l., works....lb. .24 - —
l.c.l., works.....lb. .24½- .25½
Phenylacetate, dms.....lb. 2.00 - 2.25
Phthalate (see Dibutyl phthalate).
Propionate, dms., dlvd.....lb. No stocks
tanks, dlvd.....lb. No stocks
Stearate, dms., l.c.l., frt. alld. E. of Rockies..lb. .47½- —
Butyric ether, bots.....lb. 6.50 - 6.90
cns., works.....lb. .65 - .70
dms., works.....lb. .60 - —

C

Cadmium bromide, jars.....lb. 1.66 - 1.91
Iodide, cns.....lb. 4.49 - 4.64
Lithopone (see Yellow).
Metal, ingots or sticks, dlvd.. lb. 1.75 - 1.80
pat. shapes, cs., dlvd.....lb. 1.75 - 1.80
Selenide (see Red).
Sulphide (see Yellow).
Caffeine, dms., 100 lbs. or more. lb. 3.75 - 7.00
anhydrous, dms., 100 lbs. or more..lb. 4.00 - —
Citrated, dms., 100 lbs. or more. lb. 2.50 - —
Hydrobromide, bots.....lb. 5.91 -5.92
Calabar beans, bgs., futures..lb. .65 - .66
Calamus root, natural, dom., bls. lb. .40 - .45
imported, bleached, bls..lb. .70 - .80
100 lbs 3.00 - 4.00

Calciferol, cryst., vials, 10,000 or more standard units (1 standard unit=1,000,000 USP units), works..gram. 4.00 - —
1,000 to 10,000 s.u., works. gram. 4.40 - —
less than 1,000 s.u., works. gram. 4.80 - —
Inedible oil, dms., 10,000 or more, s.u., works...unit. .10 - —
1,000 to 10,000 s.u., works. unit. .11 - —
less than 1,000 s.u., works. unit. .12 - —
Calcium acetate, bgs., dlvd...
Arsenate, dealers, dms., c.l., whse., wks., frt. alld..lb. .09½- —
l.c.l., 96 lbs. or more....lb. .10½- .11½
Bromide, N.F., jars.....lb. .70 - —
Carbide, dms., c.l., works, ton.50.00 - —
dlvd. .....ton.87.00 -90.00
Carbonate (see Chalk and Whiting).
Chloride, cryst., purified, bbls., jars..lb. .28 - .30
flake, 77-80%, paper bgs., c.l., dlvd..ton.21.50 -38.00
l.c.l., dlvd.....ton.31.50 -48.00
liquor, basis 40%, tanks, wks. ton. 8.50 - —
solid, 73-75%, dms., c.l., dlvd. ton.21.00 -37.50
l.c.l., dlvd.....ton.31.00 -34.15
Calcium chloride prices vary according to zone; minimum prices are for spot delivery, C.l. prices for flake in burlap bgs., $2.50 per ton higher; dms., $3.50 per ton higher.
Cyanide, dms., delivered E. of Rockies..lb. .25 - .40
Gluconate, USP, bbls.....lb. .58 - .65
cns. .....lb. .76 - .83
Calcium, gluconate, AA grade, 7c. per lb. higher.

Spot Deliveries

CASTOR OIL

BLEACHING POWDER
35-37% AND 70%

CAUSTIC SODA
FLAKE AND SOLID

GLYCERINE C.P.

ACETYL SALICYLIC ACID

GLUCOSE 45° Bé.

TRICHLORETHYLENE

ZINC OXIDE
FRENCH PROCESS AND LEADED

OTHER SPECIAL PRODUCTS

Distributors for THE RUFERT CHEMICAL COMPANY
NICKEL FORMATE • Also NICKEL CATALYST • NICKEL CARBONATE
NICKEL OXIDE, etc.

GOLWYNNE
CHEMICALS CORPORATION

420 LEXINGTON AVENUE • NEW YORK 17, N. Y. • PHONE LE 2-9740

Calcium hydride, dms., works..lb. .90 - —
Glycerophosphate, N.F., fib. dms..lb. 1.90 - —
Hypochlorite, 100-lb. dms., dlvd. E. of Rockies..dm.24.00 -28.50
cans, 45-lb. cases, same basis. cs.19.75 -21.50
Iodide, jars.....lb. 4.12 - —
Lactate, USP, powd., dms..lb. .40 - .50
Laurate, bbls. .....lb. .28 - .30
Mandelate, USP, dense, fluffy, works, dms..lb. 2.05 - 2.30
Naphthenate, 5% Ca, 50-gal. dms..lb. .27 - —
Pantothenate, dex., jars...kilo.75.00 - —
Phosphate, feeding grade, bgs., works..ton.75.00 - —
food grade, bbls., 10 or over, works..lb. .07 - .07¾
less than 10, works.....lb. .08 - .10
medicinal, dibasic, bgs.100 lbs.11.40 -19.00
monobasic, cryst., bgs., c.l., works, frt., equald..lb. .05¾- —
l.c.l., frt. equald.....lb. .06 - .06½
tribasic, bbls., c.l., works..lb. .0635- —
bgs., l.c.l., works.....lb. .0645- .0650
Phytate, bgs., works.....lb. .16 - .17
Resinate, precip., 5.5% Ca, 100-lb. dms..lb. .20 - —
Silicate, hydrated, c.l., bgs., works..lb. .05½- —
l.c.l., works.....lb. .06 - —
Stearate, precip., ctns., 2,000 lbs. to c.l., works..lb. .52 - —
l.c.l., works.....lbs. .53 - —
Sulphate (see Gypsum).
Sulphide, 70%, bgs., c.l., works. ton.45.00 - —
30%, bgs., c.l., works....ton.50.00 - —
luminous, tins, works.....lb. 1.25 - —
Sulphocarbolate, bbls., dms..lb. .49 - .54
Calcium-strontium sulphide, phosphorescent, dms., works..lb. 1.06 - 1.50
fine particle size, works. lb. 1.50 - 1.75
Calendula flowers, bls.....lb. 1.05 - 1.10

Calomel, USP, dms.....lb. 2.10 - 2.11
fine powd., dms.....lb. 2.25 - 2.26
Camphor, monobromated, dms.lb 3.20 - —
Camphor, natural.....lb. No stocks
synth., tech., bbls., contract, 2,000 lbs. or more, works..lb. .48 - —
10 bbls. (1,500 lbs.)....lb. .50½- —
5 to 9 bbls.....lb. .51 - —
1 to 4 bbls.....lb. .53 - —
smaller lots.....lb. .54 - .61
USP, gran., powd., bbls., 2,000-lb. lots..lb. .75 - —
1,000-lb. to 2,000-lb. lots.lb. .76 - —
smaller lots.....lb. .77 - —
tablets, 2,000-lb. lots.....lb. .89 - —
1,000-lb. to 2,000-lb. lots.lb. .90 - —
smaller lots.....lb. .91 - —
Canada balsam (see Fir balsam).
Cantharides, Russian, bgs....lb. 7.00 - 7.25
powdered, bxs.....lb. 7.25 - 7.50
Chinese, cs. .....lb. 4.00 - 4.25
powd.. bxs. .....lb. 4.25 - 4.50
Capsicum (see Pepper, red).
Capsicum oleoresin, USP VII, cns..lb. 4.50 - 4.65
Caramel coloring, bbls.....gal. 1.25 - —
Caraway seed, California, Dutch type..lb. .25½- .26
Danish, bags.....lb. .25½- .26
Dutch, bags.....lb. .25⅝- .26½
futures, bgs.....lb. .26 - .26½
Syrian, natural, bgs.....lb. .20 - .21
Carbasole, 97%, dms., ton lots, works..lb. 1.10 - —
smaller lots, works.....lb. 1.20 - —
Carbinol, butyl, norm. dms., l.c.l., works..lb. .42 - —
secondary, dms., l.c.l., works, lb. .70 - —
Isobutyl, dms., c.l., works..lb. .51 - —
l.c.l., works.....lb. .52 - —
tanks, works.....lb. .50 - —
Methylisobutyl, dms., c.l., nearest delivery point, buyer's works..lb. .14½- —
l.c.l., same basis.....lb. .15 - —
tanks, same basis.....lb. .12 - —

Carbon bisulphide, 50-gal. dms., c.l., frt. alld. E. of Miss. R., N. of Ohio R..lb. .05 - —
l.c.l., same basis.....lb. .05¾- —
5-gal. dms., c.l., same basis. lb. .07 - .07½
l.c.l., same basis.....lb. .08 - .08½
Dioxide, cyls. .....lb. .06 - .08
Tetrachloride, c.p., dms., c.l., lb. .09 - —
l.c.l. .....lb. .09½- —
tech., Zone 1, 52½-gal. dms., c.l., frt. alld..lb. .06½- —
l.c.l., frt. alld.....lb. .07 - —
Zone 2, 52½-gal. dms., c.l., frt. alld..lb. .07 - —
l.c.l., frt. alld.....lb. .07½- —
Zone 3, 52½-gal. dms., c.l., frt. alld..lb. .07½- —
l.c.l. frt. alld.....lb. .08 - —
Zone 4, 52½-gal. dms., c.l., lb. .07 - —
l.c.l., frt. alld.....lb. .07½- —
USP, chys. .....lb. .17 - .19

Carbon tetrachloride prices are frt. alld. with the exception of Zone 4, where prices are f.o.b. cars L. A., Cal.; S. F., Cal.; Portland, Ore., and Seattle, Wash. Sales zones are:—1, Conn., Del., Ill., Ind., Ia., Me., Mass., Md., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., O., Pa., R. I., Tenn., Va., W. Va., Wis., and river cities of Burlington, Ia., and Kansas City, Kans.; 2, Ala., Ark., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. C., S. D.; 3, Colo., N. Mex., Tex., and Montana points E. of Billings; 4, Ariz., Cal., Idaho, Nev., Ore., Utah, Wash. and Montana points W. of Billings.

Cardamom, bleached, bold, cs. lb. 1.50 - 1.55
medium, cs. .....lb. 1.40 - 1.45
decorticated, Guatemalan, cs.lb. 1.20 - 1.25
India, cs.....lb. 1.20 - 1.25
green, Alleppey, bgs.....lb. 1.06 - 1.10

Carotene, cryst., 1,250,000 A units per gm., tins, works, 1,000,000 units. .50 - —
research grade (alpha, 10%, beta, 90%), amps., 100 grams, dlvd., gram. 2.85 - —
50 grams, dlvd.....gram. 2.90 - —
in vegetable oil, 250,000 USP units per gm., bots., works. lb.37.80 - —
50,000 USP units per gm., bots., works..lb. 6.43 - —
dms., works.....lb. 7.08 - —
3,000 A units per gm., tins, works, 1,000,000 units. .55 - —
dms., works, 1,000,000 units. .60 - —
3,300 USP units per gm., dms., works..lb. .66 - .71
Carvol, bots.....lb.14.25 -16.00
Cascara sagrada bark, bulk..lb. .40 - .42
Case - hardening mixture, 30% gran., dms., l.c.l..lb. .09¾- —
slabs., dms., l.c.l.....lb. .08¾- —
Casein, dom., acid-precip., bgs., 10,000 lbs. or more, ship't point..lb. .24½- .25
rennet-precip., 10,000 lbs. or more, same basis..lb. .30 - —
imp., acid-precip., ground, bgs., 100 bgs. or more..lb. .28 - —
rennet - precip., unground, 100 bgs. or more..lb. No prices
smaller lots .....lb. .31 - —
Cassia, Batavia, No. 1, Thinquill, bls..lb. .60 Nom.
Pedang, No. 1, bls.....lb. .30 - .31
shortstick, bls. .....lb. .50 Nom.
broken, bls. .....lb. .24 - .25
China buds, bgs.....lb. .22 - .22½
rolls, selected, cs.....lb. .09½- .10
extra select, broken, bls..lb. .07½- .08
Kwangsi, broken, bls.....lb. .15½- .16
Saigon, all medium.....lb. .23 - .24
4-10-4, bls. .....lb. .23 - .24
broken, bls. .....lb. .19 - .19½
Yunnan, bls. .....lb. .14 - .14½
Cassia fistula, bskts.....lb. .26 - .28
Castor beans, new crop, June-July, bgs., Brazilian ports. long ton.190.00 Nom.
Oil (see Oil, castor).
Pomace, bgs., c.l., works..ton.37.50 - —
Castoreum, nat., cns.....lb.39.00 - —
synthetic, cns. .....lb. No prices
Catechol, CP, cryst., works, fib. dms..lb. 2.00 - —
resublimed, works, dms....lb. 3.25 - —
Catnep, bls. .....lb. .35 - .40
Celery seed, French, bgs.....lb. .20 - .21
Indian, bgs. .....lb. .17½- .19
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb. .36 - —
granules, ctns., same basis.lb. .42 - —
Acetate-butyrate, flake, high (36.5%) butyrl content, 50-lb. ctns., 5,000 lbs. and up, frt. alld..lb. .51 - —
1,000-4,900 lbs., frt. alld. lb. .52 - —
50-lb. ctns., 100-900 lbs., frt. alld..lb. .53 - —
smaller pkgs., works.lb. .54 - —
medium (18.5 or 17.0%), 50-lb. ctns., 5,000 lbs. and up, frt. alld..lb. .49 - —
1,000-4,900 lbs., frt. alld. lb. .50 - —
100-900 lbs., frt. alld.lb. .51 - —
smaller pkgs., works.lb. .52 - —
Granules are 6c. per lb. higher, all quantities.
Triacetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb. .40 - —
Cerium hydrate, dms., works..lb. 1.00 - —
Oxalate, NF, bbls., kgs., works. lb. .70 - .73
Oxide, optical grade, bgs., under 100 lbs., works..lb. 2.25 - —
kgs., 100-lb. lots, works..lb. 1.75 - —
Chalk, precipitated, cosmetic, dentifrice, and drug, bgs., c.l., works..lb. .02¾- —
paint and other industries, bgs., c.l., works..ton.40.00 - —
papermakers, bgs., c.l., works. ton.32.50 -40.00
rubbermakers, bgs., c.l., works. ton.30.00 - —
Chamomile, Hungarian, cs., futures..lb. .65 - .70
Roman, bls., futures.....lb. 1.45 - 1.50
Charcoal, hardwood, lump, bulk, c.l., works..ton.39.50 -43.50
bur. bgs., extra, returnable, c.l., works..ton.42.50 -45.50
briquets, bulk, c.l., works.ton.49.50 - —
bgs., c.l., works.....ton.54.50 -55.50
granular, bgs., incl., c.l., wks. ton.50.50 - —
screenings, bgs., works...ton.32.50 - —
Pinewood, lump, bgs., c.l., works, South..ton.35.00 - —
granular, powd., bgs., c.l., works, South..ton.40.00 - —
l.c.l., works.....ton.50.00 -60.00
Willow, powd., bbls.....lb. .06 - .07
Chestnut extract, 25% tannin, bbls., c.l., works.....lb. .0435- —
l.c.l., works.....lb. .0460- —
tanks, works.....lb. .0375- —
powdered, 65% tannin, bags, extra, c.l., works.....lb. .1040- —
l.c.l., works.....lb. .1115- —
China clay, dom., dry-grd., air-float, 99.75%, 300 mesh, bgs., c.l., works..ton.12.00 - —
l.c.l., works....ton.16.00 - —
bulk, c.l., works.ton. 9.00 - —
200 mesh, bgs., c.l., works..ton.12.00 - —
l.c.l., works.....ton. 9.50 -15.50
wet-grd., silk-bolt, 99½%, 325 mesh, bulk, c.l., works..ton. 9.50 - —
paper bgs., c.l., works.ton.12.50 - —
imported, white, lump, bulk, c.l., ex dock Balto., Boston, Norfolk, Phila..ton.51.25 - —
powd., cks., l.c.l., ex whse. ton.71.75 - —
Chloral, dms., works.....lb. .45 - .50
Hydrate, jars.....lb. .93 - .98
Chlorinated rubber, standard, ctns., 100 lbs. up, works.lb. .40 - —
smaller lots, works.....lb. .42 - —
1-lb. bots, ex whse.....lb. 1.25 - —
Chlorine, liquid, cyls., c.l., del. lb. .06¾- —
contracts, del. .....lb. .06¾- —
l.c.l., del. .....lb. .09 - .10½
tanks, single units, works, frt. equald..100 lbs. 2.00 - —
multiple units, 3 cars or more, works, frt. equald. 100 lbs. 2.30 - —
2 cars, works, frt. equald. 100 lbs. 2.90 - —
1 car, works, frt. equald. 100 lbs. 3.50 - —
Chloroform, tech., dms.....lb. .20 - .22
USP, dms.....lb. .30 - .33

Lowest color at lowest production cost is assured with FILTROL* Adsorbents because press cake losses are cut to the bone—you get more oil per press run and top quality production is maintained with minimum labor and equipment.

Special FILTROL is a scientifically controlled and chemically prepared, highly activated adsorbent. It is "tailor made" to fit a wide range of oils. It counterbalances the effects of nature's colors and balances your runs to uniform top quality.

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PRODUCTS OF FILTROL RESEARCH AND DEVELOPMENT

*Reg. U.S. Pat. Off.

Fahrenheit's zeal never slackened

For years Fahrenheit attempted to construct a practical thermometer so that he could with his . . . "own eyes perceive this beautiful phenomenon of nature". . . that water boils at a fixed heat. His zeal never slackened.

And for years the efforts of the instrument maker were in vain until he remembered that the column of mercury in a barometer was "a little altered by the varying temperatures of the mercury. From this I gathered that a thermometer could be constructed of mercury. . . ."

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CHICAGO • PHILADELPHIA • LOS ANGELES • MONTREAL

UNIFORM • DEPENDABLE • PURITY

Chloropicrin, com'l, 180-lb. cyls. lb. .50 - —
100-lb. cyls., same basis..lb. .52 - —
25-lb. cyls., ex whse.....lb. 1.00 - —
1-lb. bots., ex whse.....lb. 1.25 - —
Choline chloride, 5lb. dms., works. lb. 3.00 - 3.10
feed grade, 5lb. dms., works. lb. 2.00 - —
Dihydrogen citrate, 5lb. dms., works..lb. 3.00 - 3.10
Chrome acetate, powd., 72% Cr., bbls., works..lb. No stocks.
solut., 7½%, bbls., cs.....lb. .09¼- —
8½%, bbls., cs.....lb. .09¾- —
Fluoride, bbls., works.....lb. .24 - .27
Cake, bulk, c.l., works....ton.16.00 - —
Oxide (see Green, chrome oxide).
Trioxide (see Acid, chromic).
Yellow (see Yellow, chrome).
Chrysarobin, bots.....lb. 4.02 - 8.00
Cinchona bark, red, quill, USP, 10-in., can..lb. 1.26 Nom.
Cinchonidine, small, cryst., cns., 100 ozs..oz. 1.02½- —
Cinchonine, large cryst., cns., 100 ozs..oz. .79½- —
small cryst., cns., 100 ozs..oz. .75½- —
sulphate, NF, cns., 100 ozs..oz. .85½- —
Cinchopen, NF, heavy, dms., works..lb. 4.20 - 4.30
standard, dms., works....lb. 4.00 - 4.10
Cinnamic alcohol (see Alcohol, cinnamic).
Aldehyde, cbys., cns., dms..lb. .82 - 1.25
Cinnamon, Ceylon, No. 2, bls., futures..lb. .49 - .50
Citral, bots., cns.....lb. 5.15 - 7.70
Citronellal, bots., dms.....lb. No prices.
Citronellol, bots., dms.....lb. 5.85 - 9.75
Clove, Madagascar, bls.....lb. .12 - .12½
futures, bls.....lb. .12 - .12½
Zanzibar, bls.....lb. .16 - .16½
Clover tops, red, dom., bgs....lb. .65 - .70
imported, bgs. .....lb. No stocks.

Coaltar, coal-gas, crude, 50 gal., dms., c.l., works..dm. 9.50 - —
l.c.l., works .....dm.10.00 - —
tanks, works .....gal. .09 - —
refd., 50-gal. bbls., c.l., works. bbl.10.00 - —
l.c.l., works .....bbl.10.50 - —
tanks, works .....gal. .10 - —
water-gas, crude, 55-gal. dms., c.l., works..dm. 9.50 - —
l.c.l., works .....dm.10.00 - —
tanks, works .....gal. .09 - —
refd., 55-gal. dms., c.l., works. dm.10.00 - —
l.c.l., works.....dms.10.50 - —
Cobalt acetate, bbls., kgs., dlvd. lb. .83½- —
Carbonate, powd., bgs., works. lb. 1.58 - —
feed grade, 43½% Co, kgs.lb. 1.58 - —
Chloride, kgs., works.....lb. .67½- —
feed grade, 24.5% Co, kgs.lb. 1.25 - —
Hydrate, bbls. .....lb. 2.04 - —
feed grade, 62% Co, kgs...lb. 2.04 - —
Linoleate, paste, 6%, dms...lb. .60 - —
solid, 3½%, dms.....lb. .65½- —
Naphthenate, 6% Co, solid, dms. lb. .75½- —
Nitrate, feed grade, 20.4% Co, bbls..lb. .75½- —
Oleate, bbls. .....lb. .44 Nom.
Oxide, black, kgs.....lb. 1.16 - —
Phosphate, feed grade, 34% Co, kgs..lb. 1.26½- —
Resinate, precip., 7.5% Co, 100-lb. dms..lb. .36½- —
Soyate, 3%-3.5% Co, 50-gal. dms..lb. .42 - .44
Sulphate, dms.....lb. .65 - —
feed grade, 21% Co, kgs....lb. 1.00 - —
Cobalt salts, feed grade, quotations are f.o.b. Philadelphia, Cleveland or New York.
Cobalt-ammonium sulphate, 14% Co, kgs..lb. .75 - —
Cocaine hydrochloride, 100-oz. lots, cns..oz. 9.75 - —
Cochineal, gray, bgs.....lb. .67 - .68
silver, Teneriffe, bgs.....lb. .69 - .70

Cocoa butter, bulk.....lb. .57 - .58
Cocillana bark, bgs.....lb. .50 - .51
Codeine, cns., 100ozs.....oz.11.70 - —
Hydrochloride, cns., 100 ozs.oz.10.50 - —
Phosphate, cns., 100 ozs....oz. 9.00 - —
Sulphate, cns., 100 ozs.....oz. 9.50 - —
Codliver oil (see Oil, codliver).
Cohosh root, black, bls.....lb. .24 - .25
blue, bls. .....lb. .24 - .25
Colchinine, bots., cns.....oz. No stocks.
Colchicum seed .....lb. 6.00 Nom.
Collodion, USP, dms. .....lb. .24 - .29
Flexible, USP, dms. .....lb. .25½- .30½
Colocynth pulp, bls.....lb. .50 - .52
Colombo root, bls.....lb. .15 - .16
Coltsfoot leaves, bgs.....lb. .43 - .44
Condurango bark, bgs., futures, lb. .25 - .26
Copaiba balsam, Para, cns....lb. No stocks.
S. A., USP, cns.....lb. .85 - .90
Copper acetate, cupric, bbls., works..lb. .28 - —
smaller containers, wks..lb. .29 - .30
Carbonate, 52-54%, bbls.....lb. .24 - .26
Chloride, anhyd., bbls.....lb. .26½- —
crystals, bbls. .....lb. .17½- —
Cyanide, tech., bbls.....lb. .40½- —
Hydrate, dms., del. E. Miss.lb. .26½- .29½
Metal, electrolytic .....flb. .21½- .24
Naphthenate, liquid, 8% Cu, dms., dlvd..lb. .21 - —
solid, 11% Cu, dms., dlvd.lb. .27½- —
Nitrate, tech., cryst., bbls., works..lb. .25 - .28
Oleate, precip., bbls.....lb. .32½- —
Oxide, black, bbls., works...lb. .29 - .30
red, com'l, bbls., works....lb. .30 - .33
Oxychloride-sulphate, bgs...lb. .24 - —
Resinate, precip., 6.5% Cu, 125-lb. dms..lb. .21½- —
Stearate, bgs., works.....lb. .35½- —
Sulphate cryst., 99%, bgs., c.l., works..100 lbs. 7.60 - —
l.c.l., 100 to 36,000 lbs.. 100 lbs. 7.85 - 8.00

Copper sulphate, monohydrated, 35%, dms., c.l., dlvd.... 100 lbs.12.55 -12.80
l.c.l., dlvd. .....100 lbs.13.55 - —
tribasic, dealers, bgs., works. c.l..lb. .21½- .23½
l.c.l., same basis.....lb. .23 - .23½
Copperas, cryst., gran., bgs., c.l., works..ton.17.00 - —
l.c.l., works.....100 lbs. 1.55 - 2.00
bbls., c.l., works.....ton.20.00 - —
bulk, c.l., works.....ton.14.00 - —
Copra, c.l.f., Pacific ports....ton.171.00 - —
c.l.f., Atlantic or Gulf ports.ton.177.00 - —
Coriander seed, Argentine, bgs., lb. .05¼- .05¾
Indian, bgs.....lb. No stocks
Italian, bgs.....lb. .06¼- .06¾
Morocco, bgs.....lb. No stocks
Peruvian, bgs.....lb. .06½- .07
Corn silk, bls.....lb. .38 - .40
Corn sugar, tanners, chipped, bgs., c.l., 60,000 lbs. min. 100 lbs. 5.79 - —
bbls., c.l., same basis.... 100 lbs. 5.83 - —
Syrup, 42°, bbls., c.l....100 lbs. 6.15 - —
l.c.l. .....100 lbs. 6.30 - —
Corrosive sublimate, USP, cryst., dms., 50 lbs. or more..lb. 1.98 - —
gran., powd., dms., 50 lbs. or more..lb. 1.78 - —
Cottonroot bark, bls.....lb. .40 - .45
Cottonseed hull ash, 32-36% pot-ash, bgs., dlvd..unit-ton. No prices
Meal, 41% protein sacked, mills, southeast, c.l..ton.62.00 -64.00
Coumarin, cns., 25 lbs. or more. lb. 2.75 - 2.95
smaller lots.....lb. 2.90 - 3.30
Cramp bark, NF, bls.....lb. .75 - .80
Cream of tartar, dom., USP, gran. or powd., bbls., 5,000 lbs., one ship't..lb. .41½- —
smaller lots, bbls., kgs. lb. .42 - .43¼
Creosote carbonate, bots., cbys. lb. 2.30 - 2.40
Coaltar (see Cresol).
Oil, coaltar, crude, tanks, works. gal. .17½- —
refined, dms., c.l., works. gal. .30 - .34½
l.c.l., same basis....gal. .33 - .35
tanks, same basis....gal. .21 - .23
solution, 50-50, tanks, works. gal. .16 - —
Wood beech, bots., cbys....lb. 1.05 - 1.10
Hardwood, NF, bots., cbys.lb. .80 - .85
Pine, dms.....gal. .31 - .32
Cresol, special resin grades, dms., c.l., works, frt. equald. lb. .13¼- .13¼
l.c.l. same basis.....lb. .13 - .13¾
tanks, same basis.....lb. .11¾- .12¾
USP, dms., c.l., same basis..lb. .18¾- —
l.c.l., same basis.....lb. .14¼- —
tanks, same basis.....lb. .13 - —
Crotonaldehyde, 91-93%, 55 and 110 gal. dms., l.c.l., works. lb. .17 - —
5 and 10-gal. dms., l.c.l., works..lb. .20½- —
Cryolite, nat., dealers, bgs., bbls., c.l., works..100 lbs. .12¾- —
bbls., l.c.l., works....100 lbs. .14 - —
synth., bgs., bbls., c.l., frt. alld. E. of Miss. R..lb. — - —
l.c.l., works.....lb. — - —
Cube root, 5% rotenone works..lb. .40 - .45
4% rotenone, bbls., works..lb. .48 - .53
Cubeb berries, XX, bgs.....lb. .75 - .80
powd., cs. .....lb. 1.00 - 1.05
Culvers root, bls.....lb. .38 - .39
Cumin seed, Cyprus, bgs.....lb. No stocks
Indian, bgs., futures.....lb. .40 - .41
Morocco, bgs.....lb. No stocks
Persian, bgs. .....lb. .26 - .26½
Syrian, bgs. .....lb. .26 - .26½
Cutch, 66% tannin, bgs., ex dock. lb. .12 - —
Cyanamide, fertilizer mixing grades, guaranteed 20.6% N., gran., bulk, Niagara Falls, Ont., contracts, bulk. unit-ton. 1.85 - —
21% N., pulv., bgs., same basis..unit-ton. 1.75 - —
Cyclohexane, tech., dms., c.l., works..lb. .09¼- —
l.c.l., works.....lb. .10 - —
tanks, works.....lb. .08 - —
Cyclohexanol, dms., c.l., works. lb. .21¼- .26
l.c.l., works .....lb. .22 - —
tanks, works .....lb. .20 - —
Cyclohexanone, tech., dms.....lb. .26¼- .30
l.c.l., works .....lb. .27 - .31
tanks, works .....lb. .25 - .29
Cyclopropane, USP, cyls., dlvd.. gal. .27 - —

D

Damiana leaves, bls.....lb. .35 - .40
Dandelion root, bls.....lb. .70 - .75
DDT, fiber, dms., c.l., works.lb. .42½- —
ton lots, works.....lb. .45 - —
tins, smaller lots, works....lb. .43 - .50
Decanol, normal, tech., dms., dlvd..lb. .25 - —
Deertongue, bls.....lb. .35 - .40
Defluorinated phosphate, 65% b.p.l., paper bag., Columbus, Ga..ton.39.25 - —
Texarkana, Ark.....ton.41.00 - —
Tupelo, Wis.....ton.39.25 - —
Wales, Tenn.....ton.39.25 - —
phosphate rock, paper bgs., works..ton.34.25 - —
Degras, common, bbls.....lb. .10 - .13
neutral, less 2% ffa, bbls..lb. .22 - .24
over 2% ffa, bbls.....lb. .21 - .23
Derris root (see Cube root).
Dextrin, British gum, bgs., c.l. 100 lbs. 7.00 - —
l.c.l. .....100 lbs. 7.15 - —
Chicago, bgs., c.l....100 lbs. 6.55 - —
Corn, canary, bgs., c.l..100 lbs. 6.74 - —
l.c.l. .....100 lbs. 6.89 - —
Chicago, bgs., c.l..100 lbs. 6.29 - —
dark, bgs., c.l.....100 lbs. 6.84 - —
l.c.l. .....100 lbs. 6.99 - —
Chicago, bgs., c.l...100 lbs. 6.39 - —
white, bgs., c.l.....100 lbs. 6.59 - —
l.c.l. .....100 lbs. 6.74 - —
Chicago, bgs., c.l..100 lbs. 6.14 - —
Above prices are for dextrin in paper bgs.; cotton bgs., 20c. higher.
Potato, dom., bgs.....lb. .13 - .13¼
Diacetone (see Alcohol, diacetone).
Diacetyl, flavor grades, bots..lb. 5.20 - 6.00
laboratory grade, bots..... 100 grams. 4.50 - —
tech., bots., works.....lb. 3.00 - —
Diamyl ether (see Amyl ether).
Phthalate, dms., tanks.....lb. No prices
Diamylamine, dms., c.l., works, lb. 1.47 - —
l.c.l., works.....lb. 1.50 - —
Dianisidine, dms.....lb. 1.35 - —

BENZYL BENZOATE

DDT (Government Specifications)

ERGOSTEROL (Non Irradiated)

TRICRESYL PHOSPHATE

MONTROSE *Chemical Company*
LISTER AVENUE, NEWARK, NEW JERSEY
SELLING AGENTS R. W. GREEFF & CO., INC. 10 ROCKEFELLER PLAZA, NEW YORK, N. Y.
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GOOD NEW and USED EQUIPMENT

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Model 3D

Maximum Diameter 5/8"
Maximum Depth 1-1/16"
Capacity 100 per minute

Original New Cost $838

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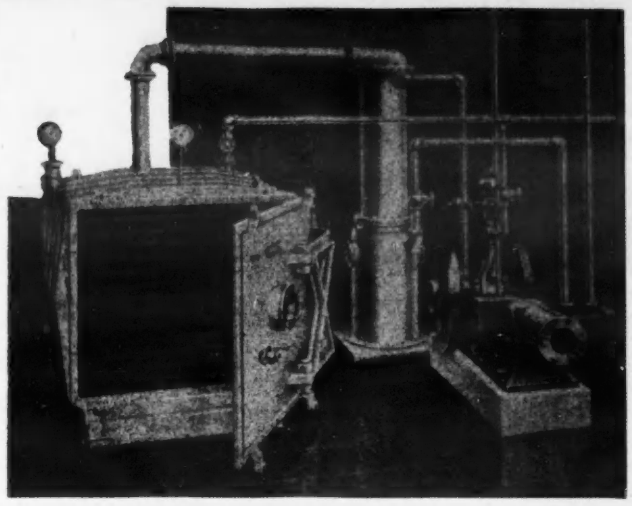
$325

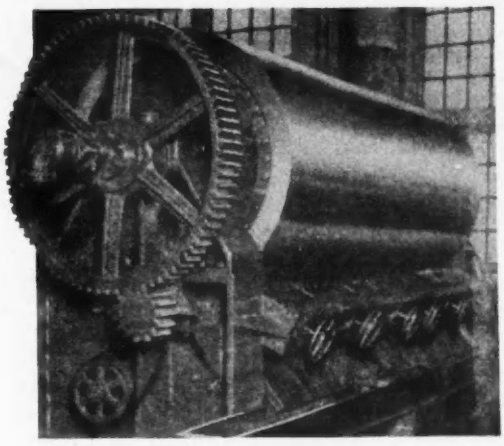
T. & L. Pulley
F.O.B., N. Y. Warehouse

Condition Equal to New!

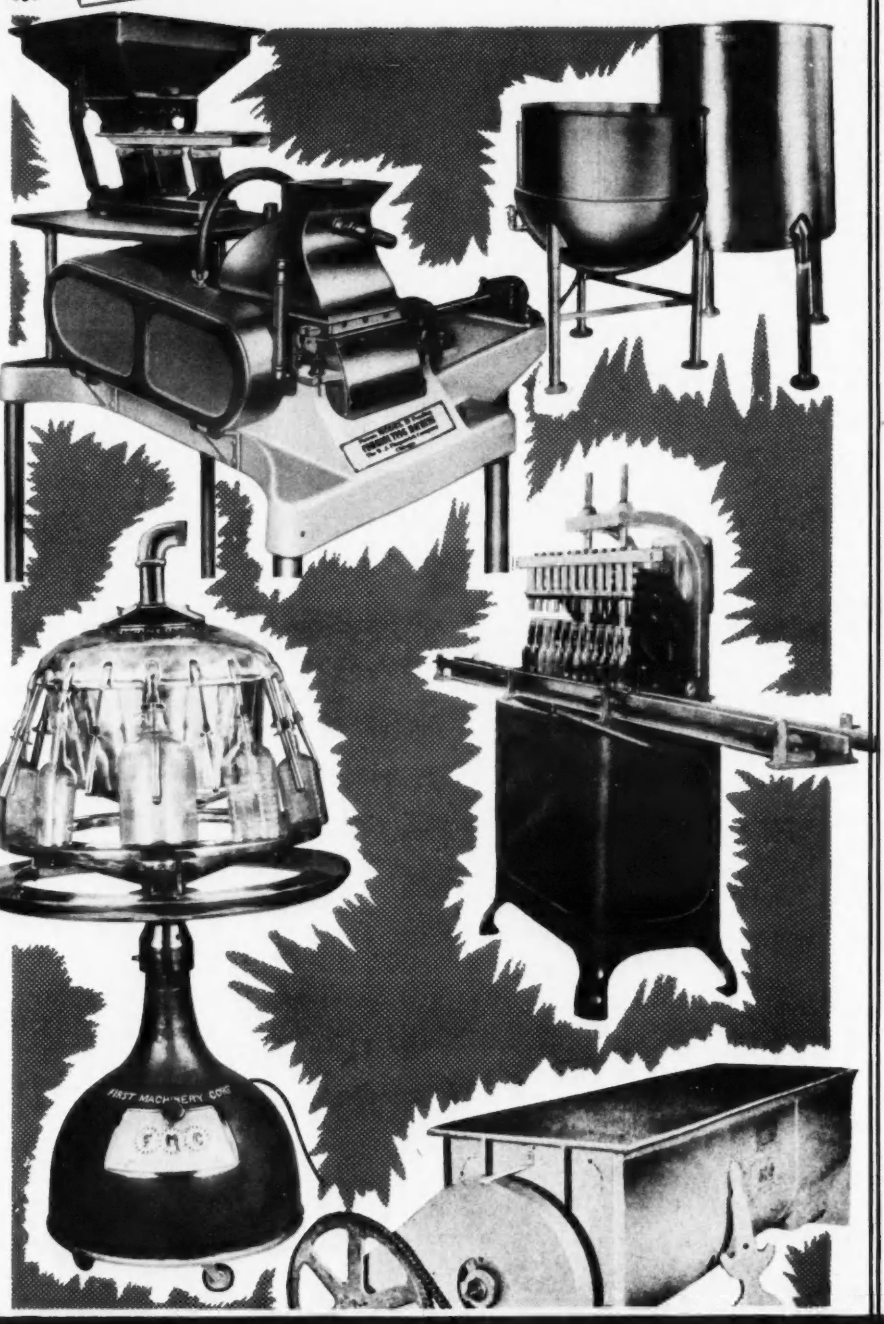


DEVINE-BUFLOVAK VACUUM SHELF DRYERS

1 Buffalo Double Door 20 Shelf 60" x 160"
4 Devine No. 11—40" x 43"
Dryers of All Types Available



Single and Double Drum Dryers
Wide Range of Capacities



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REACTORS
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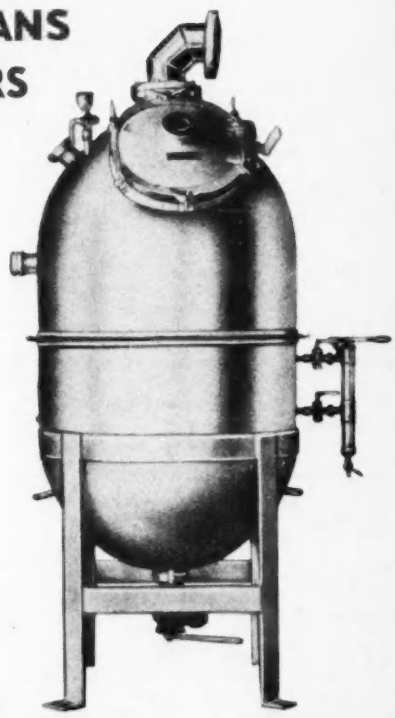
in

- **Stainless**
- **Steel**
- **Iron**
- **Copper**
- **Aluminum**



State Size
and
other Requirements

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FMC

EVERYTHING! UNDER ONE ROOF

ACCUMULATORS

1 H.P.M. Accumulator, 2¼" x 4', 2500 lbs.

1 High and Low Pressure 8 Ton Accumulator.

AUTOCLAVES

1 Impregnator, fumigator or pressure tunnel, 7' x 7' x 50' with rails, vacuum pump and accessories.

1 Vertical, 4' x 7'6", forge welded steel, 900 lbs. pressure.

1 Vertical, 42" x 24'4", forge welded steel, 600 lbs. pressure.

2 Jacketed autoclaves, 3' x 12', ½" shell, 100 P.S.I.

1 Horizontal Autoclaver or Impregnator, good for 100 P.S.I. with steam coils, quick opening doors, 6' x 20'.

1 5000 cu. ft. Gas Holder Bell Type

COLLOID MILLS AND HOMOGENIZERS

7 Eppenbach Colloid Mills, vertical and horizontal types, some in stainless steel, from ½ HP to 5 HP.

2 Premier Mills, 5 HP and 40 HP.

4 Charlotte; (Chemi-Colloid) from 1 HP to 50 HP.

10 Manton Gaulin, in stainless or bronze, from 1½ HP to 20 HP.

3 Marco Homogenizers, 7½ HP to 10 HP.

6 Cherry Burrell, Union, Hurrell, York, in stainless, and bronze, up to 40 HP.

DRYERS

2 Louisville Steam Tube Dryers, 54" dia. x 30' and 6' x 25'.

1 Louisville Dryer, 6' x 39', lined with non-corrosive metal.

1 Truck Dryer, 12' long, 6' wide, 7' high, with 4 trucks.

3 Tray Dryers, electrically heated, and gas heated, medium capacity, 6 to 10 shelves.

8 Devine, Stokes and Buffalo Vacuum Shelf Dryers, from Laboratory size to Double Door 60" by 160", twenty shelf large production unit; some complete with all accessories.

1 Apron type single pass conveyor dryer, 18" x 23', motorized.

1 Double drum dryer, Black and Clawson, 30" x 60", with accessories.

1 Christie Dryer, 70" x 40' long.

3 Procter and Schwartz steam heated tray dryers, capacity—80 trays, 10" x 5', complete with accessories.

7 Rotary Dryers, from 3' x 30' to 6' x 64'.

3 Single drum dryers or flakers, 4' x 9', 4' x 12' and 3' x 6', with accessories.

1 Devine rotary vacuum dryer, 5' x 33', with 35 HP motor and accessories.

EVAPORATORS

1 Quadruple Effect Steel Evaporator, 60,000 lbs. water per hour.

1 Blaw Knox triple effect evaporator, horizontal type, 6' x 9', all steel.

3 Buffalo triple effect evaporators, 600 to 1200 sq. ft.

1 Swenson single effect cast aluminum.

1 Zaremba cast iron single effect, 10' diameter x 12' high, 200 gallon holding capacity, copper tubes, complete with vacuum pump and condenser.

EXTRACTORS

19 Centrifugal Extractors, various types from 20" to 48", some with iron, copper, rubber lined baskets and curbs, some with unloaders, plows, two speed motors, etc. State exact requirements.

EXTRUDERS

2 Allen 6" and 10" Extruder-Strainers.

FILLERS

3 Haller Rotary for juices, 7, 14 and 18 spout.

Buffalo and Vol-U-Meter can fillers.

Fowler stainless bleach filler.

FMC Straight Line and Rotary Syphon Fillers.

FMC Straight Line Stainless Vacuum Fillers ready for immediate shipment.

Samco, Pneumatic Scale and Kiefer Cinati Rebuilt Vacuum Fillers.

2 Stokes 32 hole Capsul Fillers in good condition. Stokes No. 79-80A Tube Filler, Closer, Crimper in Stainless.

3 Ayers No. 3 Tablet Counters and Fillers.

4 Filler Machine Co. Stainless Piston Fillers, 3 to 11 Pistons.

MILLS

4 Rubber Mills, 36", 48" and 60", with motors.

1 Lancaster Mixer Type SKG, 30" Bowl—13" Muller with 5 HP Motor.

6 Mikro Pulverizers, No. 1 and No. 4.

20 Fitzpatrick, stainless, Model "D" Comminuting Machines.

8 Raymond Mills, Nos. "00," "0000," 45, 1, others.

2 Jay Bee, No. 12 mills.

1 Lehman 5 roll finisher or roller mill, 18" x 48".

6 Stedman, Gruendler, Williams hammermills.

5 Allis Chalmers and Stearns Rogers tube mills, 5' x 22'.

2 Rod Mills, 5' x 10', 6' x 14'.

1 Porter jacketed mill, 5' x 5'.
Abbe, Patterson and other Pebble and Ball Mills . . . state needs.

Large selection of Roller Mills, 3, 4 and 5 rolls, 12" x 30", 16" x 48" and others of J. H. Day, Ross, Kent, Lehmann and others.

1 Lancaster Model EG4 Mixer, with 58" bowl, motorized.

1 Simpson Intensive Mixer, No. 2, with 6' bowl, motorized.

PACKAGING EQUIPMENT

Several complete lines for automatic filling of powders or liquids including sealers, cappers, labelers, etc.

Hoepner automatic, scale weigher, filler, bagger and stitcher for 5 and 10 lb. free flowing materials.

Fillers for liquids, paste, powders.

Envelope and bag sealers.

Wrappers, cartoners, conveying lines.

6 Compression Belts or Sealers; 8' and 12' and 17'.

7 Standard Knapp and Ferguson Aut. Carton Gluers and Sealers.

PRESSES

Hydraulic Presses for Plastics, Laminating, Metal Powder Compression, etc., by H.P.M., Dunning and Boschert, Southwark, Bethlehem, Thropp, Elmes, Birdsboro, Stokes, etc. State your requirements. Cider Presses in several capacities.

PUMPS

All types of pumps; for prompt shipment, state requirements.

SIFTERS

9 Day Ro-Ball Sifters: 20" x 84" and 40" x 84".

3 Tyler Hummer Sifters. 3' x 6', 4' x 5'.

2 Combs Gyratory Sifters, 21" and 25".

2 Robinson, No. 31, Gyro-Sifters, 20" x 69", 3 deck pulley drive.

1 Wolfe, 20" x 40" sifter, 6 separations, 1 HP motor.

STILLS

Stokes and Barnstead water stills, gas or steam operated, from 2 to 300 GPH.

8 Distillation or Fractionating Columns, copper, 18" to 84" diameter.

TABLET MACHINES

35 Stokes and Colton Tableting Presses, single punch and rotary presses.

★★★★★ 5 STAR SPECIALS

2 J. H. Day 40 Gal. Pony Mixers

1 Stokes Stainless 79D-80A Tube Filler-Closer

3 Filler Machine Co. Stainless Piston Fillers

4 Standard-Knapp and Ferguson Automatic Case Gluers and Sealers

12 Read Jacketed Double Ribbon 160 Gal. Mixers

12 Day Roball and Orville Simpson Rotex Sifters

1 Allbright-Nell Flaker 3' x 6', complete

FILLERS FOR DRY POWDERS

Stokes, Stokes and Smith, National Packaging, Triangle, Edthauer, J. H. Day, Howes, Sprout, Waldron, etc.

FILTER PRESSES AND FILTERS

Shriver, Sperry and Johnson Plate and Frame as well as recessed.

Presses from 12" to 42", in Cast Iron, Aluminum, Lead, Wood, etc.

Oliver United, Sweetland, Bowser, Alsop, Industrial and other Standard Make Filters . . . state requirements, preferred make, capacity for quick quotations.

KETTLES

14 Steel and Cast Iron jacketed and agitated Kettles, from 100 gallons to 2400 gallon.

Copper, Steel, stainless, jacketed; some agitated.

New Stainless Kettles all sizes; prompt shipment.

LABELERS

8 Burt, Standard Knapp or Kyler all around Labelers, for cans, glass, etc.

4 New Jersey Labelrites.

2 Straight Line fully automatic Labelers, Pneumatic and Weeks-MacDonald.

8 World and Ermod semi-automatic Labelers for spot labeling.

MIXERS

1 Readco 150 gal. Stainless Clad double sigma arms, steam jacketed, with vacuum cover, 60 HP explosion motor.

12 Read Jacketed Mixers, with double ribbon agitators, 33" x 34" x 72". Prompt shipment all sizes ribbon type, horizontal, all steel mixers.

2 Patterson horizontal double ribbon, 30" x 40" x 84".

2 Heavy Duty, jacketed, 5 gallon, double arm, double gear.

Dough Type Mixers single or double arms, jacketed or unjacketed from one BBL. to six BBL.

Mixing Tanks and Kettles in steel, stainless, copper, etc.

2 J. H. Day 40 gallon Pony Mixers.

MISCELLANEOUS

1 Waldron Five Color Textile Printing Press for goods up to 31" in good operating condition.

6 Coating Pans in copper from 20" to 38" diameter.

8 Large Horizontal Copper Storage Tanks from 1000 to 8000 gal.

3 Kiefer 72 spout Rotary Rinsers.

4 Vacuum Pans or Stills in Copper, Aluminum and Glass Lined, some with agitators from 50 gal. to 3000 gal.

1 Bell Type Gas Holder, 5000 cu. ft. with all accessories.

COMPLETE PLANTS FOR SALE STILL INSTALLED

- Paint and Varnish
- Distillery
- Winery
- Macaroni—Tomato
- Dog Food—Meat
- Vegetable Oil
- Brewery
- Peanut Butter
- Plastics
- 2 Rubber Plants
- Powder Metallurgy and Others

WANTED! YOUR SURPLUS EQUIPMENT. F.M.C. PAYS MORE FOR GOOD, DESIRABLE UNITS — LET'S HAVE YOUR LIST!

FIRST MACHINERY CORP.

157 HUDSON STREET NEW YORK 13, N. Y.

Diatomaceous earth, dom., CP, bgs., c.l., Atlantic Coast..lb. .07 - —
l.c.l., ex whse.....lb. .10 - .16
nat., bgs., c.l., Pacific coast, ton.22.00 -25.00
l.c.l., ex whse.....ton.45.00 - —
purified, bgs., c.l., Atlantic coast..ton.55.00 -59.00
l.c.l., ex whse.....ton.85.00 -90.00
Algerian, bgs., c.l., Atlantic coast..ton. No prices
Mexican, white, bgs., c.l., Atlantic coast..lb. .03 - —
l.c.l. .....lb. .06 - —
Dibutyl phthalate, dms., c.l., same basis..lb. .30½- .33½
l.c.l., same basis.....lb. .31 - .34½
tanks, same basis.....lb. .29 - .32
Sebacate, dms., c.l., works..lb. No prices
l.c.l., works.....lb. No prices
tanks, works.....lb. No prices
Tartrate, dms., wks., frt.alld. lb. .92 - 1.02
Dibutylamine, dms., c.l., works, lb. .76 - —
l.c.l. works.....lb. .79 - —
Dichlorodiphenyltrichlorethane (see DDT).
Dichloroethyl ether, purified, dms., c.l., works, frt. equald with So. Charleston..lb. .13½- —
l.c.l., same basis.....lb. .14 - —
tanks, same basis.....lb. .12½- —
Diethanolamine, dms., c.l., frt. alld in E..lb. .23½- —
l.c.l., same basis.....lb. .24½- —
tanks, same basis.....lb. .22½- —
Diethyl carbonate, dms., l.c.l..lb. .40 - —
Oxalate, dms., c.l.....lb. .35½- —
l.c.l. .....lb. .36½- —
tanks .....lb. .34 - —
Phthalate, dms., c.l., divd..lb. .29¼- —
dms., l.c.l., divd.....lb. .30 - —
tanks, divd.....lb. .28 - —
Sulphate, dms., c.l., works..lb. .14 - —
l.c.l., works.....lb. .15 - —
tanks, works.....lb. .13 - —
Diethylamine, dms., c.l., works, lb. .69 - —
l.c.l., works.....lb. .71 - —
tanks, works.....lb. .65 - —
Diethylaminoethanol, dms., l.c.l., works, frt. alld. E. of Miss. R..lb. .75 - —
Diethylaniline, dms. .....lb. .48 - —
Diethyleneglycol, dms., c.l. frt. alld. in E...lb. .14 - —
l.c.l., same basis.....lb. .15 - —
tanks, same basis.....lb. .13 - —
Monobutylether, dms., c.l., wks. lb. .22 - —
l.c.l., works .....lb. .23 - —
tanks, works.....lb. .21 - —
Monoethylether, dms., c.l., wks, lb. .15½- —
l.c.l., works.....lb. .16½- —
tanks, works.....lb. .14½- —
Diethylstilbestrol, bots.....kilo.270.00 -280.00
Digitalin, cryst., bots.....gram.29.00 -30.00
powd., bots.....gram. 1.25 - 1.75
Digitalis leaves, dms.....lb. 1.05 - 1.15
Diglycol laurate, dms.....lb. .31 - .32
Oleate, light, bbls., c.l.....lb. .17 - —
Stearate, bbls., c.l.....lb. .23 - —
Dihydroxydichlorodiphenylmethane, dms., works of N.Y.met.lb. .95 - 1.00
smaller containers, same basis, lb. 1.05 - 1.40
Di-isobutyl ketone, dms., works. lb. .19 - —
Di-isobutylene, dms., c.l., works. lb. .07 - —
l.c.l., works.....lb. .07½- —
tanks, works.....lb. .05½- —
Dillseed, decorticated, bgs.....lb. .12½- .13
dewhiskered, bgs.....lb. .10 - .10½
Dimethyl phthalate, dms., c.l., divd..lb. .22¼- —
l.c.l., divd. .....lb. .23 - —
tanks, divd. .....lb. .21 - —
Dimethylamine, anhyd., cyl., frt. alld. E. of Miss., 100% basis, lb. .40 - —
solution, dms., works, frt. alld. E. of Miss., 100% basis..lb. .37 - .47½
tanks, same basis.....lb. .36 - —
Dimethylaniline, dms., c.l. ....lb. .21 - .24¼
l.c.l. .....lb. .22 - —
Dinitrobenzene, bbls. .....lb. .16 - —
Dinitrochlorobenzene, dms.....lb. .14 - .15½
Dinitronaphthalene, kgs. .....lb. .35 - .38
Dinitrophenol, bbls. .....lb. .22 - —
Dinitrotoluene, rfd., dms.....lb. .18 - —
oily, dms.....lb. .07 - .07¾
Diorthotolylguanidin, dms., ten lots, divd..lb. .44 - —
smaller lots, divd.....lb. .46 - .47
Dioxan, dms., c.l., frt. alld....lb. .20 - —
l.c.l., same basis.....lb. .21 - —
tanks, same basis.....lb. .19 - —
Dip oil (see Tar acid oil).
Dipentene, destructive dist., dms., extra, wks., South, c.l., gal. .68 - —
tanks, wks., South.....gal. .60 - —
steam-dist., dms. .....gal. .80 - —
tanks, divd. E.....gal. .77 - —
Diphenyl, bbls., c.l., works....lb. .15 - —
l.c.l., works .....lb. .16 - .20
Oxide, perfume grade, cns...lb. .50 - .61
dms. .....lb. .45 - .50
Diphenylamine, bbls. .....lb. .25 - —
Diphenylguanidin, dms., tens..lb. .35 - —
smaller lots .....lb. .36 - .37
Divi-divi, 35% tannin, c.l., U.S. ports, ex dock..ton.63.00 -65.00
Doggrass root, dom., cut, bls.lb. .27 - .28
imp., N.F., cut, bls.....lb. .41 - .42
Dogwood, Jamaica, bark, bls..lb. .12 - .14
Dover's powder, USP, cns....lb. No stocks.
Dragon's blood, drops, cs.....lb. .45 - .47
reeds, cs.....lb. No stocks.
Dyes, coaltar (certified colors for foods, drugs and cosmetics), 5-lb. lots):—
Blue, FD&C, No. 1, cns....lb.13.00 - —
Green, FD&C, No. 1, cns...lb.13.00 - —
No. 2, cns.....lb.17.00 - —
No. 3, cns.....lb.27.00 - —
Orange, FD&C, No. 1, cns..lb. 2.80 - —
No. 2, cns.....lb. 3.55 - —
Red, FD&C, No. 1, cns....lb. 5.75 - —
No. 2, cns.....lb. 3.05 - —
No. 3, cns.....lb.17.00 - —
No. 4, cns.....lb. 5.50 - —
No. 32, cns.....lb. 4.05 - —
Yellow, FD&C, No. 1, cns..lb. 6.00 - —
No. 3, cns.....lb. 2.55 - —
No. 4, cns.....lb. 2.55 - —
No. 5, cns.....lb. 3.05 - —
No. 6, cns.....lb. 3.05 - —
Dyes, coaltar (certified colors for drugs and cosmetics), 1-lb. lots:—
Black, D&C, No. 1, cns.....lb. 8.35 - —
Blue, D&C, No. 4, cns.....lb.12.35 - —
Brown, D&C, No. 1, cns....lb.12.35 - —
Green, D&C, No. 5, cns.....lb.12.35 - —
No. 6, cns.....lb.12.35 - —
Orange, D&C, No. 3, cns....lb. 8.35 - —
No. 4, cns.....lb.15.35 - —
No. 10, cns.....lb.15.35 - —
Red, D&C, No. 6, cns.....lb. 2.85 - —
No. 17, cns. .....lb. 8.35 - —
No. 18, cns.....lb.15.35 - —
Yellow, D&C, No. 7, cns....lb. 8.35 - —
8, cns.....lb. 8.35 - —
No. 11, cns. .....lb.10.35 - —
No. 19, cns. .....lb.15.35 - —
No. 22, cns. .....lb. 8.35 - —
No. 33, cns. .....lb.12.35 - —
No. 37, cns. .....lb.12.35 - —

Dyes, coaltar (certified colors for external use drugs and cosmetics), 1-lb. lots—
Blue, Ext. D&C, No. 1, cns..lb.12.35 - —
Green, Ext., D&C, No. 1, cns. lb.12.35 - —
Red, Ext., D&C, No. 1, cns..lb.10.35 - —
No. 3, cns.....lb.21.85 - —
No. 8, cns.....lb. 7.85 - —
No. 10, cns.....lb.12.35 - —
No. 13, cns.....lb.12.35 - —
Yellow, Ext., D&C, No. 1, cns. lb. 8.35 - —

Dyes, coaltar, for general uses (numbers are those of the Colour Index scale).
86 Chrome yellow, 2G..lb. .65 - .70
40 Chrome yellow R....lb. .50 - 1.00
53 Victoria violet.....lb. .80 - 1.00
165 Lake red C.....lb. .70 - .80
170 Fast red A.....lb. .56 - .60
180 Fast red VR.....lb. 1.50 - 1.60
189 Lake red R, paste..lb. .85 - .90
189 Lake red R, powd...lb. 3.00 - 3.10
202 Chrome blue black U.lb. .35 - .42
204 Chrome black A....lb. .42 - .45
208 Fast red blue R.....lb. .75 - 2.00
216 Chrome red B.....lb. 1.75 - 2.00
252 Cloth red 2B.....lb. .60 - .80
289 Fast cyanin 5R.....lb. .90 - 1.00
290 Chrome black F....lb. .85 - .88
304 Paper yellow.....lb. .88 - .90
307 Fast cyanin black B.lb. .80 - .85
326 Direct fast scarlet...lb. 2.00 - 2.25
365 Chyrophenin G.....lb. .58 - .70
382 Direct scarlet B.....lb. 1.15 - 1.20
387 Direct violet B.....lb. 1.00 - 1.30
394 Direct violet N.....lb. .80 - .95
401 Developed black BHN, lb. .45 - .60
406 Direct blue 2B.....lb. .66 - .70
415 Direct orange B.....lb. .60 - .70
419 Direct fast red F....lb. .70 - .73
420 Direct brown M.....lb. .55 - .57
448 Benzo purpurin 4B...lb. .65 - .68

Dyes, coaltar, for general uses (numbers are those of the Colour Index scale).
405 Benzo purpurin 10B..lb. .40 - .50
502 Direct azorin G.....lb. .75 - .80
512 Direct blue RD.....lb. .80 - 1.00
518 Direct pure blue 6B..lb. 1.20 - 1.30
520 Direct pure blue.....lb. .50 - 1.00
529 Direct fast black FF.lb. .55 - 1.00
581 Direct black EW....lb. .50 - .54
582 Direct black RX....lb. .35 - .45
592 Direct green B.....lb. .50 - .55
594 Direct green G.....lb. .50 - .55
596 Direct brown 3GO...lb. .85 - 1.00
620 Direct yellow R.....lb. 1.25 - 1.50
688 Acid violet.....lb. 1.00 - 3.00
812 Primulin .....lb. .70 - .73
814 Direct fast yellow...lb. 2.00 - 2.25
945 Nigrosin (water soluble). lb. .35 - .50
1177 Indigo, 20%, paste...lb. .15 - .18
Benzo fast black L.lb. .90 - 1.00
Sulphur black.....lb. .20 - .25
Sulphur blue.....lb. .45 - 1.00
Sulphur brown.....lb. .25 - .50
Sulphur maroon.....lb. .40 - —
Sulphur tan.....lb. .30 - .50
Sulphur olive.....lb. .25 - .54
Sulphur yellow.....lb. .30 - .50
Zambesi black.....lb. .75 - .80

Dyes, coaltar, for stains, oil-soluble (prices E. in barrels of 250 lbs. each; 25-lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).
Black—
865 Nigrosin derivatives..lb. .36 - .44
Blue—
7075 Alizarin astral base..lb.15.00 - —
1073 Alizarin cyanin, green base..lb. 6.00 - —
Brown—
Brown, oil soluble.....lb. 1.15 - —
Green—
1078 Alizarin cyanin green base..lb. 5.00 - —

Dyes, coaltar, for stains, oil-soluble (prices E. in barrels of 250 lbs. each; 25-lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).
Orange—
24 Sudan I.....lb. .75 - —
Red shade.....lb. .75 - —
Red—
75 Sudan II.....lb. 1.05 - —
258 Sudan IV.....lb. .85 - —
680 Oil violet.....lb. .60 - —
749 Rhodamine B (oil pink). lb. 2.50 - —
1060 Anthraquinone, violet base..lb. 6.00 - —
Yellow—
16 Amidoazobenzene yellow. lb. .90 - —
17 Amidoazotoluene yellow. lb. .75 - —
61 Yellow, OB.....lb. 1.40 - 2.00

Dyes, coaltar, for stains, spirit-soluble (prices in barrels of 250 lbs. each; 25-lb. lots and up 3c. per lb. higher, sellers' works or warehouse).
Black—
246 Naphthol blue black S.. lb. .50 - —
729 Victoria blue B.....lb. 1.85 - —
861 Indulin .....lb. .87 - —
878 Methylene gray.....lb. 1.50 - —
909 New blue P.....lb. 1.20 - —
922 Methylene blue.....lb. 1.00 - —
1054 Alizarin saphirol B...lb. 1.90 - —
1130 Indigotin IA.....lb. .85 - —
Blue—
714 Patent blue A.....lb. 1.05 - 1.10
Brown—
231 Bismarck brown G...lb. .47 - .62
234 Resorcin brown Y....lb. .65 - —
235 Resorcin dark brown R. lb. .65 - —
632 Bismarck brown R....lb. .47 - .62
793 Phosphin .....lb. 4.65 - —

For UNIFORM EXCELLENCE plus ECONOMY COAT YOUR BLUEPRINT PAPERS...

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USING CYANAMID'S REDSOL CRYSTALS

(Potassium Sodium Ferricyanide)

More and more leading coaters of blueprint papers are turning from Red Prussiate of Potash to Cyanamid's REDSOL* Crystals. Produced from raw materials over which Cyanamid exerts rigid control, REDSOL Crystals dissolve quickly, have exceptional purity and uniformity, produce results of uniform excellence.

REDSOL Crystals are economical, too. They contain 3% to 4% more active Ferricyanide per pound than Red Prussiate of Potash...and thus turn out more work per unit weight. And REDSOL Crystals cost less per pound, further increasing the economy of their use.

REDSOL Crystals are also finding increasingly wide use in the photographic industry as a reducer and toner, and wherever a mild oxidizing agent is required.

When Performance Counts . . . Call On Cyanamid

Industrial AMERICAN *Chemicals* CYANAMID *Division* COMPANY

30 ROCKEFELLER PLAZA, NEW YORK 20, N. Y.

Manufacturers of Yellow Prussiate of Soda, Yellow Prussiate of Potash, Red Prussiate of Potash. *Reg. U. S. Pat. Off.

Dyes, coaltar, for stains, spirit-soluble (prices in barrels of 250 lbs. each; 25-lb. lots and up 5c. per lb. higher, sellers' works or warehouse).

Green—
5 Naphthol green B....lb. 1.00 - —
657 Malachite green.....lb. 1.35 - —
662 Brilliant green.....lb. 2.00 - —
666 Guinea green B.....lb. 1.15 - —
737 Wool green S.....lb. .58 - —
924 Methylene green B...lb. 1.55 - —
1078 Alizarin cryanin green..
lb. 2.00 - —

Orange—
10 Chrysodin G.....lb. .44 - —
21 Chrysodin R.....lb. .41 - —
27 Orange G.....lb. .50 - —
31 Amidonaphthol red G.lb. .42 - —
37 Amidonaphthol red 6B.
lb. .68 - —
151 Orange Y.....lb. .31 - .32
161 Orange R.....lb. .34 - —

Red—
79 Ponceau R.....lb. .48 - —
88 Fast red B.....lb. 1.65 - —
176 Fast red A.....lb. .54 - —
179 Asorubin .....lb. .60 - —
183 Crocein scarlet 3BX..lb. .72 - .75
185 Cochineal red A.....lb. .60 - —
252 Brilliant crocein M...lb. .68 - —
677 Fuchsin .....lb. 2.10 - —
749 Rhodamine B.....lb. 3.50 - —
752 Rhodamine 6B.....lb. 4.50 - —
768 Eosin G.....lb. 1.50 - —
841 Safranin .....lb. 1.45 - —

Violet—
680 Methyl violet B.....lb. .70 - .75
681 Crystal violet B....lb. 1.75 - —
695 Acid violet 4BN.....lb. .58 - —

Yellow—
10 Naphthol yellow S....lb. .83 - —
138 Metanil yellow.....lb. .54 - .58
634 Fast light yellow.....lb. 1.25 - —
639 Xylene light yellow...lb. 1.15 - —
640 Tartrazin .....lb. .80 - —
655 Auramine .....lb. 1.27 - —

Dyes, coaltar, for stains, water-soluble (prices E. in barrels of 250 lbs. each; 25-lb. lots and up 5c. per lb. higher, sellers' works or warehouse).

Black—
864 Nigrosin .....lb. .36 - .44

Blue—
860 Indulin .....lb. .68 - .70

Brown—
231 Bismarck brown.....lb. 1.50 - —

Green—
637 Malachite, green base—
lb. 2.00 - —

Orange—
20 Chrysoidin G.....lb. .95 - —

Red—
677 Fuchsin, magenta, base,
lb. 7.25 - —
749 Rhodamine R.....lb. 4.75 - —

Yellow—
67 Amidoazotoluene yellow,
lb. .75 - —
655 Auramine .....lb. 2.00 - —
800 Chinolin yellow SS...lb. 2.00 - —

Violet—
680 Methyl violet base..lb. .85 - —

Dyes, natural (see name of article).

E

Echinacea root, bls.....lb. .70 - .75
Egg, albumen (see Albumen).
Yolk, dried, dom., bbls....lb. 1.25 - 1.30
imported .....lb. No stocks
Elder flowers, bright, bls.....lb. .73 - .74
Elecampane root, bls.....lb. .40 - .41
Elm bark, grinding, bls.....lb. .35 - .36
powd., bbls., bxs.....lb. .45 - .50
select, bndls.....lb. .55 - .56
Emetine hydrochloride, bots..oz.53.50 -54.00
Ephedra, bls.....lb. .20 - .21
Ephedrine, synthetic, USP anhydrous, bots, 100-oz.
lots..oz. .84 - —
hydrous, bots., 100-oz. bots.
oz. .76 - —
Ephedrine hydrochloride, tin, 100 ozs..oz. .60 - —
Sulphate, cryst., tins, 100 ozs.
oz. .57 - —
powd., tins, 100-oz. lots..oz. .58 - —
Epichlorohydrin, dms., c.l., works.
lb. .46 - —
l.c.l., works .....lb. .46½- —
tanks, works .....lb. .44½- —
Epinephrine, synth., USP, bots..
gram. .70 - .95
Epsom salt, tech., cryst., bgs., c.l..100 lbs. 2.05 - —
l.c.l. .....100 lbs. 2.40 - 2.65
USP, cryst., bgs., c.l..100 lbs. 2.25 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.50 - —
smaller lots....100 lbs. 2.75 - —
bbls., c.l. .....100 lbs. 2.35 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.60 - —
smaller lots ....100 lbs. 2.85 - —
kgs., c.l. .....100 lbs. 2.60 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.85 - —
smaller lots .....100 lbs. 3.10 - —
Epsom salt prices freight equalized with Balto., Carteret, N. J.; Chicago, Cincinnati, Cleveland.
Ergot, USP, cns.....lb. 1.25 - 1.30
Eserine, bots. .....oz. No prices.
Sulphate, bots. .....oz.65.00 - —
Ether, acetic (see Ethyl acetate).
Amyl (see Amyl ether).
Butyl, l.c.l., dms., dlvd.....lb. .30 - —
Ethyl (see Ether, sulphuric).
Nitrous, cons., bots., 100-lbs.lb. .98 - 1.10
Sulphuric, cons., dms.....lb. .11 - .16
USP, anesthesia, hospital, 1-lb. cns..lb. .60 - .61
Synthetic, dms., c.l., frt. alld.
lb. .18 - —
l.c.l., same basis.....lb. .19 - —
tanks, same basis.....lb. .16 - —
Ethyl acetate, natural, fermentation, 85-89%, dms., c.l., frt. alld..lb. .20½- —
l.c.l., frt. alld.....lb. .21½- —
tanks, frt. alld.....lb. .19 - —
95-98%, dms., c.l., frt. alld.
lb. .23 - —
l.c.l., frt. alld.....lb. .24 - —
tanks, frt. alld.....lb. .21½- —
99%, dms., c.l., frt. alld.lb. .21 - —
l.c.l., frt. alld.....lb. .22 - —
tanks, frt. alld.....lb. .19½- —
USP, dms. .....lb. .27 - —
synthetic, 85-90%, dms. c.l., frt. alld..lb. .10¼- —
l.c.l., frt. alld.....lb. .11 - —
tanks, frt. alld.....lb. .09½- —
95-98%, dms., c.l., frt. alld.
lb. .11 - —
l.c.l., frt. alld.....lb. .11½- —
tanks, frt. alld.....lb. .10 - —
Acetoacetate, dms., c.l., works,
lb. .50½- —
l.c.l., frt. alld.....lb. .51½- —
Benzoate, bots. .....lb. .50 - .52
B-ethoxy proprionate, dms., works..lb. .70 - —
Bromide, tech., 96%+, dms..lb. .36 - .40
Carbamate, dms., dlvd. E...lb. .56 - —
Chloride, tech., tanks.....lb. .13½- —
USP, bbls., cyl.....lb. .20 - .22
Cinnamate, cns. .....lb. 2.60 - 3.25
Formate, dms., Agnue, Calif.lb. .26 - .32
Iodide, bots .....lb. 3.50 - 3.60
Lactate, dms., works.....lb. .88½- —
Myristate, dms., works.....lb. No prices.
Oenanthate, dms.....lb. 2.60 - 3.25
Oleate, dms., l.c.l., works..lb. .47 - —
Oxalate, dms., frt. alld....lb. .33 - —
Silicate, dist. (see Tetraethyl orthosilicate).
40% available SiO_2, dms., works..lb. .50 - —
Ethylcellulose, pkgs., 5,000 lbs., or more, works..lb. .57 - —
smaller lots, works .....lb. .59 - .67
Ethyldiethanolamine, dms., l.c.l., works..lb. .80 - —
Ethylene dichloride, dms., c.l., works, frt. alld. E. of Rockies..lb. .08 - —
West of Rockies.....lb. .08½- —
l.c.l., works, frt. alld. E. of Rockies..lb. .09 - —
West of Rockies.....lb. .09½- —
tanks, frt. alld. E. Rockies, lb. .07 - —
West of Rockies.....lb. .07½- —
Trichloride (see Trichlorethane).
Ethyleneglycol, dms., c.l., frt. alld. in E..lb. .12 - —
l.c.l., same basis.....lb. .13 - —
tanks, same basis.....lb. .11 - —
Monobutylether, dms., c.l., wks. lb. .17½- —
l.c.l., works.....lb. .18½- —
tanks, works.....lb. .16½- —
Monoethylether, dms., c.l., wks. lb. .15½- —
l.c.l., works.....lb. .16½- —
tanks, works.....lb. .14½- —
Monoethylether, acetate, dms., c.l., works..lb. .13½- —
l.c.l., works.....lb. .14½- —
tanks, works.....lb. .12½- —
Monomethylether, dms., c.l., works..lb. .16½- —
l.c.l., works.....lb. .17½- —
tanks, works.....lb. .15½- —
Ethylethanolamine, dms., c.l., works..lb. .57 - —
l.c.l., works.....lb. .60 - —
Ethylmonoethanolamine, l.c.l., dms., works..lb. .80 - —
Ethylmorphine, hydrochloride, bots..oz.10.50 -10.75
Ethylvanillin, cns., 5 lbs. or more..lb. 6.75 - —
smaller lots.....lb. 6.90 - 6.90
Eucalyptol, cns., dms.....lb. 2.85 - 3.25
Eucalyptus leaves, bls.....lb. .14 - .15
Eugenol, prime, USP XII.....lb. 2.60 - 3.50
Euphorbia, bls. .....lb. .19 - .20

F

Feldspar, enamel, 100 mesh, bgs. ton.17.00 -20.50
bulk, c.l.....ton.14.00 -17.50
glass, 20 mesh, bgs., works, min. 2 tons..ton.12.75 -16.25
bulk, c.l.....ton. 9.75 -12.25
pottery, bgs., l.c.l., works, min. 2 tons..ton.20.00 -22.00
bulk, c.l., works.....ton.17.00 -19.00
Fennel seed, Argentine, bgs., futures..lb. .08 - .08½
Indian, bgs., afloat.....lb. .18 - .18½
Fenugreek, domestic, bgs.....lb. No stocks
Indian, bgs.....lb. .09 - .09½
Morocco, bgs.....lb. .11½ Nom.
futures, bgs.....lb. .10½- .11
Ferric sulphate (see Iron sulphate, ferric).
Film scrap, colored, cs., works.lb. .13½- .15
water-white, cs., works.....lb. .14½- .17
Fir balsam, Canada, cns.....gal.23.50 -24.00
Oregon, bbls. .....gal. 2.45 - 2.55
Fishberries, bgs.....lb. .24 - .25
Fishliver oils (see Oil, fishliver).
Fishmeal, grd., 60% protein, bgs., E. works..ton.130.00 - —
65% protein, bgs., E. works. ton.150.00 - —
Fishscrap, dried, 60% protein, bulk, East coast..ton.110.00 -120.00
Flake white, bbls.....lb. .09 - —
kegs .....lb. .11 - —
Flaseed, black, bgs.....lb. .55 - .60
Blonde, bgs.....lb. .31 - .33
Fluorspar, No. 1, ground 95-98% CaF_2 bulk, c.l., mines, net ton.37.00 - —
Washed, gravel, 70% or more CaF_2, c.l., bulk, mines. ton.33.00 - —
65%, c.l., bulk, mines....ton.32.00 - —
60%, c.l., bulk, mines....ton.31.00 - —
less than 60%, c.l., bulk, mines..ton.30.00 - —
Formaldehyde, bbls., c.l., works, lb. .0645- —
l.c.l., works.....lb. .0695- —
dms., extra, c.l., works.....lb. .0545- .0580
l.c.l., works.....lb. .0595- .0630
tanks, works.....lb. .0370- .0420
tanktrucks, dlvd. N.Y.C...lb. .0395- —
Fringetree bark, bls.....lb. .75 - .76
Fuller's earth, dom., powd., bags., c.l., Fla., Ga. mines..ton.30.00 - —
Tex. mines.....ton.27.00 - —
spent, bulk, Bayonne...ton. 6.00 - —
imp., bgs., c.l.....ton.30.00 - 40.00
Furfural, tech., dms., c.l., works. lb. .13 - —
l.c.l., cns., dms.....lb. .15½- .20½
tanks works.....lb. .09½- —
Fusel oil, dms., c.l.....lb. .26½- —
l.c.l. .....lb. .27½- —
tanks .....lb. .25 - —

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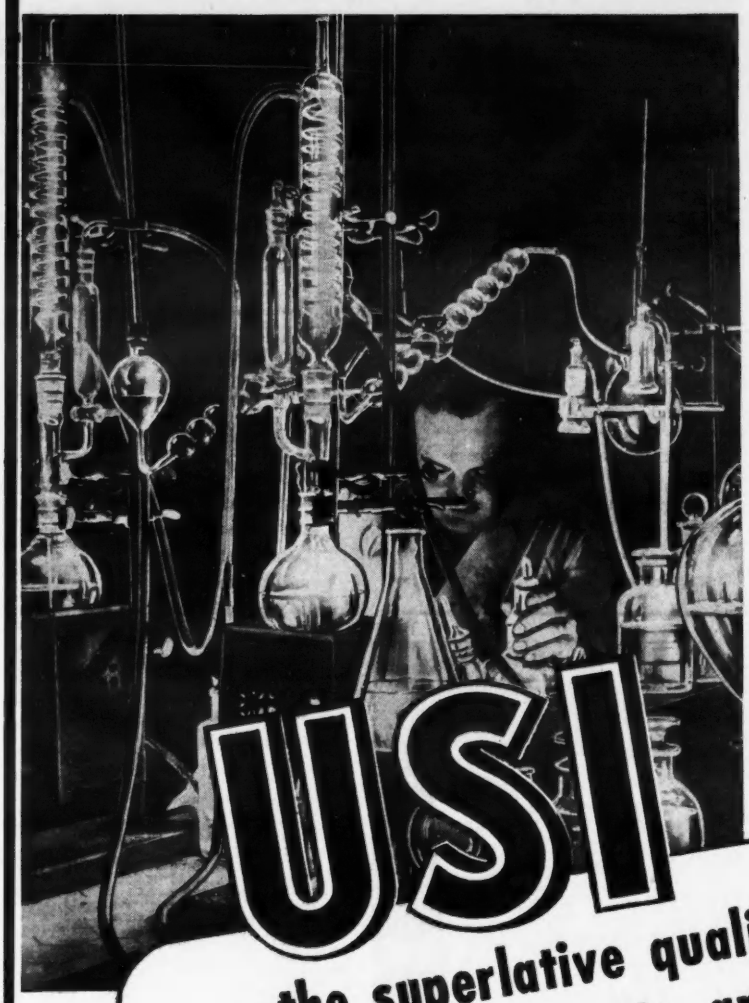

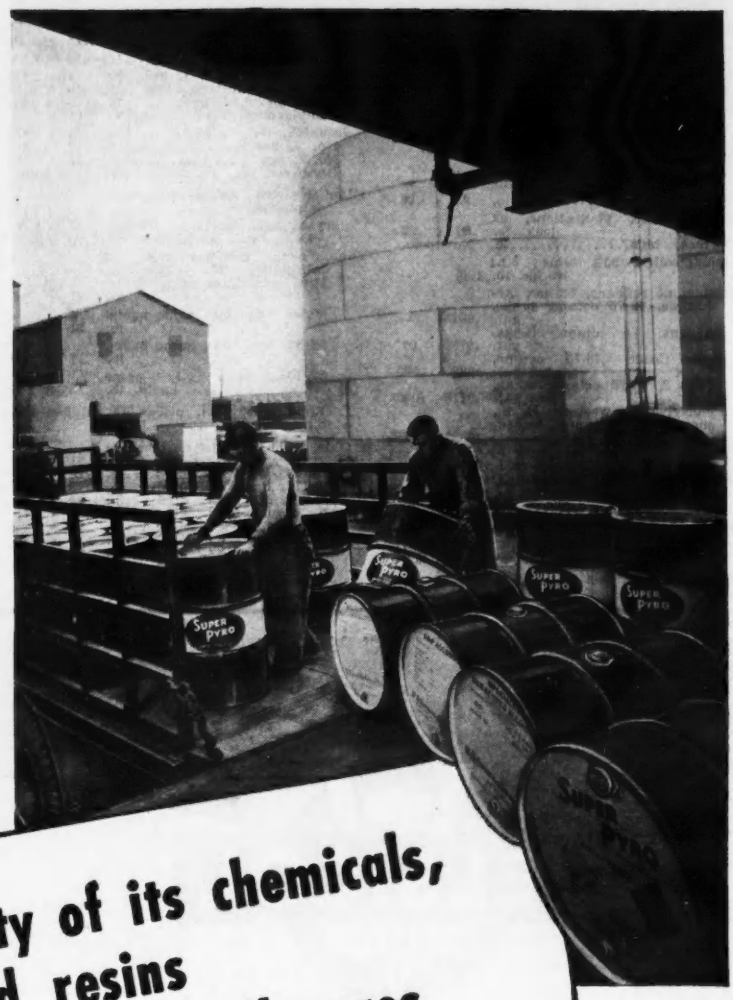

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Fustic extract, cryst., No. 1, bbls., l.c.l..lb. .41 - —
No. 1A, bbls., l.c.l.....lb. .40 - —
No. 2, bbls., l.c.l.....lb. .39 - —
No. 3, bbls., l.c.l.....lb. .37 - —
liquid, No. 0, bbls., l.c.l...lb. .21½- —
No. 1, bbls., l.c.l.....lb. .20 - —
No. 2, bbls., l.c.l.....lb. .19 - —
No. 3, bbls., l.c.l.....lb. .16½- —
solid, No. 1, bxs., l.c.l....lb. .27 - —

G

G salt, bbls.....lb. .50 - —
Galangal root, bls.....lb. .25 - .28
Gambier, cube, plantations, ex dock..lb. .20 - .22
Extract, bbls.....lb. No stocks
Gammapicoline, 95%, dms., c.l., works..lb. 1.35 - —
Gasoline, at refinery, ex tax Arkansas, 73-75 octane, tanks, gal. .0825- —
Bayonne, 74 octane, tanks, gal. .0780- .09
Gulf Coast, 73-75 octane, tanks..gal. .0825- .085
Group 3, 73-75 octane, tanks, gal. .0775- .0825
Pennsylvania, western, U. S., motor, 74 octane, leaded, tanks..gal. .0825- .0925
natural, 25/70 octane, Group 3, tanks..gal. .05375- —
Gelatin, silver label, ctns., dlvd. lb. 1.25 - —
export, cs.....lb. 1.35 - —
Silver label prices 5c. higher for deliveries in Ariz., Calif., Colo., Idaho, Mont., Nev., N. Mex., Ore., Tex., Utah, Wash. and Wyo.
Gelsemium root, bls.....lb. .35 - .40
Gentian root, bls.....lb. .20 - .21
grd., bbls., bxs.....lb. .26 - .27
powd., bbls., bxs.....lb. .24 - .25
Geraniol, 92-96%, cns., dms....lb. 7.75 -10.25
Geranyl acetate, cns.....lb. 6.75 - 9.25
Ginger, African, No. 1, bls...lb. .14½- .15
Calicut, Romeo-type, bgs...lb. .16 - .16½
Cochin, bleached, bgs.....lb. .16 - .16½
unbleached, bgs. .....lb. .14 - .14½
Jamaica, No. 1, bgs.....lb. .18 - .18½
No. 2, bgs.....lb. .16 - .16½
No. 3, bgs.....lb. .15 - .15½
Rhattoon, bgs. .....lb. .14½ Nom.
Glauber's salt, anhyd. (see Soda sulphate).
cryst., bgs., works....100 lbs. 1.25 - 1.75
l.c.l., bgs., works..100 lbs. 1.65 - 2.10
Glue, bone, calcium type, 24 millipoise, 36 jellygrams, bgs., c.l., East of Midwest. lb. .21 - —
30/56, bgs., c.l., same basis. lb. .21 - —
58/82, bgs., c.l., same basis. lb. .17 - .22½
82/108, bgs., c.l., same basis..lb. .18½- .23½
Bone glue, l.c.l. prices 1c. higher than c.l.
Hide, 100-121 (jelly test in grams), bgs., c.l., dlvd..lb. .21 - —
122-149, bgs., c.l., dlvd....lb. .22 - —
150-177, bgs., c.l., dlvd....lb. .23 - —
178-206, bgs., c.l., dlvd....lb. .24 - —
207-236, bgs., c.l., dlvd....lb. .25 - —
237-266, bgs., c.l., dlvd....lb. .26 - —
267-298, bgs., c.l., dlvd....lb. .27 - —
299-330, bgs., c.l., dlvd....lb. .28 - —
331-362, bgs., c.l., dlvd....lb. .29 - —
363-394, bgs., c.l., dlvd....lb. .30 - —
Glue, hide, 395-427, bgs., c.l., dlvd. lb. .31 - —
428-460, bgs., c.l., dlvd....lb. .32 - —
461-494, bgs., c.l., dlvd....lb. .33 - —
495-529, bgs., c.l., dlvd....lb. .34 - —
Hide glue l.c.l., prices 1c. higher than c.l. bbls., ½c. over bgs.
Glycerin, crude, saponification, 88%, to refiners, tanks..lb. .33 - .34
soaplye, 80%, tanks.....lb. .30 - .35
dynamite, dms., c.l.....lb. .50½- —
l.c.l. .....lb. .50½- —
tanks .....lb. .50 - —
high gravity, dms., c.l.....lb. .50¼- —
l.c.l. .....lb. .50¾- —
tanks .....lb. .50 - —
refined, B.P., 98%, dms., c.l.lb. .50¾- —
tanks .....lb. .50½- —
USP, 95%, dms., c.l.....lb. .50¼- —
l.c.l. .....lb. .50¾- —
tanks .....lb. .50 - —
yellow, distilled, dms., c.l...lb. .50 - —
tanks .....lb. .50 - —
Glycine, USP (see Acid, ammocetic).
Glycol, boriborate, dms.....lb. .22 - —
Stearate, dms.....lb. .26 - —
Gold chloride, acid-brown, bots. oz.20.00 -20.50
acid-yellow, bots.....oz.18.75 -19.00
Gold-soda chloride, photo, bots. oz.13.00 -13.50
USP IX, bots.....oz.14.00 -14.50
Goldenseal root, bls.....lb. 8.50 - 8.75
powd., bxs. .....lb. 9.00 - 9.25
Gold of pleasure, seed, bgs., futures..lb. .29 - .30
Grains of paradise, bgs.....lb. .28 - .29
Graphite, dom., crystalline, 80% through 50 mesh, graphitic carbon content 65-70%, bgs., whse..lb. .04½- —
70-75%, bgs., same basis, lb. .05 - —
75-80%, same basis....lb. .05½- —
80-85%, bgs., same basis, lb. .06 - —
85-90%, bgs., same basis, lb. .07 - —
90% and up, same basis. lb. .08 - —
imported, amorphous, powd., dlvd..lb. .04 - .06
crystalline, 88-90%, powd., same basis..lb. .14 - .16
90-92%, powd., same basis.. lb. .16 - .18
97% powd., same basis..lb. .22 - .25
flake, No. 1, 90-95%, 200-lb. ctns, same basis..lb. .21 - .25
No. 2, same basis..... lb. .22 - .26
Grease, house, loose.....lb. .11¾- —
yellow, loose .....lb. .11½- —
white, choice, loose.....lb. .13 - —
Wool (see (Adeps lanae and Degras).
Green, brilliant, thioflavin toner molybdic, kgs., works..lb. 4.25 - —
tungstic, kgs., works.....lb. 3.75 - —
Chrome, CP, dark, light, medium, blue content up to 5%, bbls., dlvd. N. of Tenn. and N.C. E. of Miss. River, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis..lb. .31 - —
6-10%, bbls., same basis. lb. .32 - —
11-15%, bbls., same basis. lb. .33 - —
16-20%, bbls., same basis. lb. .33½- —
21-25%, bbls., same basis. lb. .34½- —
26-30%, bbls., same basis. lb. .34¾- —
31-35%, bbls., same basis. lb. .35½- —
36-40%, bbls., same basis. lb. .37½- —
41-45%, bbls., same basis. lb. .39 - —
46-50%, bbls., same basis. lb. .40¾- —
50% and over, bbls., same basis..lb. .41¾- —
reduced color, 5%, bbls.. same basis..lb. .10 - —
6-10%, bbls., same basis..lb. .10¾- —
11-13%, bbls., same basis..lb. .11¾- —
14-16%, bbls., same basis..lb. .12 - —
17-19%, bbls., same basis..lb. .12¼- —
20-21%, bbls., same basis..lb. .12½- —
22-23%, bbls., same basis..lb. .12¾- —
24-25%, bbls., same basis..lb. .13 - —
26-27%, bbls., same basis..lb. .13½- —
28-29%, bbls., same basis..lb. .14 - —
30-31%, bbls., same basis..lb. .15 - —
32-33%, bbls., same basis..lb. .16¼- —
34-35%, bbls., same basis..lb. .17¼- —
36-40%, bbls., same basis..lb. .20 - —
41-45%, bbls., same basis..lb. .22½- —
46-50%, bbls., same basis..lb. .22¾- —
51-55%, bbls., same basis..lb. .23½- —
56-60%, bbls., same basis..lb .24 - —
61-65%, bbls., same basis.lb. .25 - —
66-70%, bbls., same basis..lb. .26½- —
Chrome green prices are ½c. higher dlv Ala., Fla., Ga., La. (Shreveport, 1½c Miss., N. C., S. C., Tenn., Texas (Dal Ft. Worth, 1¼c.; El Paso, 2c.), Ced Rapids, Des Moines, Kansas City, L coln, Omaha, St. Joseph, 1c. higher dlv Pac. Coast; for Denver, Pueblo, S Lake City and Wichita, prices are equ ized with Chicago.
Chrome oxide, pure, bgs., works. lb. .30 - .3
hydrated, bbls. .....lb. .85 - —
Malachite, thioflavin, toner, molybdic, bbls., works..lb. 3.00 - —
tungstic, bbls., works.....lb. 3.40 - —
Phthalocyanin, toner, bbls., works..lb. 4.40 - 5.0
Paris (see P).
Tungstated, brilliant, kgs....lb. 3.00 - 4.0
emerald, kgs. .....lb. 2.60 - —
Verdigris (see V).
Green dyes (see Dyes, coaltar).
Grindelia robusta, bls. .....lb. .30 - .3
Guaiac, resin, cs.....lb. .48 - .4
Wood, bls.....lb. .35 - .3
Guaiacol, cryst., N.F., tins...lb. 1.75 - —
Liquid, NF., bots., cbys....lb. 1.80 - —
Carbonate, dms. .....lb. 2.85 - —
Guarana, powd., cs. .....lb. 2.00 - 2.1
Gum accroides (see Gum, yacca).
Aloe (see A).
Arabic, amber, sorts, bgs....lb. .13¾- .1
white, sorts, 1, bgs.....lb. .28 - .2
Ammoniac, tears, cs.....lb. .90 - .9
Asafetida (see A).
Asphaltum (see A).
Benzoin, Sumatra, cs.....lb. .60 - .6
Camphor (see C).
Copal, Congo, bgs.....lb. No prices
East India, bgs. .....lb. No prices
Manila, baskets .....lb. No prices
Dammar, Batavia, AE, cs...lb. .36 - .3
F, cs. .....lb. .24 - .2
Singapore, No. 1, cs.....lb. .36 - .3
No. 2, cs.....lb. .34 - .3
Batu, bold, cs.....lb. .16 - .1
nubs, chips, bgs.....lb. .10½- —
Elemi, cns. .....lb. .29 - —
Ester, gum-resin type, dms., c.l., dlvd., Ill., Ind., Ky., Mich., Mid-Atl. States, N. England States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va.....any quantity. .19½- —
wood-resin type, dms., any quantity, dlvd. Ill., Ind., etc..lb. .18 - —
Euphorbium, cs. .....lb. 1.50 Nom
Galbanum, cs. .....lb. .95 - 1.0
Gamboge, pipes, cs.....lb. 2.30 - 2.4
powd., bbls. .....lb. 2.50 - 2.6
Ghatti, bgs. .....lb. No stocks
Guaiac (see Guaiac resin).
Karaya, bbls., bxs., dms....lb. .21 - .2
Kauri, cs. .....lb. No prices
Locust bean, powd., bbls....lb. .50 - .6
Mastic, cs.....lb. 2.50 - 2.7
Myrrh, cs.....lb. .48 - .5
Olibanum, siftings, cs.....lb. .12 - .1
tears, cs.....lb. .27 - .4
Opium (see O).
Red (see Gum yacca).
Rosin (see R).
Sandarac, bgs.....lb. .85 - .9
Scammony, cs.....lb. 1.50 - 1.5
Talha, bgs.....lb. .10 - .1
Tragacanth, No. 1, cs.....lb. 4.00 - 5.0
No. 2, cs.....lb. 3.25 - 3.5
No. 3, cs.....lb. 2.25 - 2.5
Yacca, bgs.....lb. No price
Gypsum, Keene's cement, paper bgs., c.l., Acme, Tex., frt. equald..ton.22.65 - —
Harlem River, N. Y., frt. equald..ton.28.25 - —
Medicine Lodge, Kans., frt. equald..ton.17.00 - —
New Brighton, N. Y., frt. equald..ton.30.65 - —

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J. E. Russell, Houston 1
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ypsum, Keene's cement, paper bgs., c.l., Southard, Okla., frt. equald..ton.17.00 - —
Sweetwater, Tex., frt. equald..ton.21.45 - —
Plaster of Paris, paper bgs., c.l., Acme, Texas, frt. equald. ton.12.50 - —
Blue Rapids, Kans., frt. equald..ton.10.50 - —
Harlem River, N. Y., frt. equald..ton.12.00 - —
Medicine Lodge, Kan., frt. equald..ton.12.50 - —
New Brighton, N. Y., frt. equald..ton.13.00 - —
Southard, Okla., frt. equald..ton.12.50 - —
Sweetwater, Tex., frt. equald..ton.12.50 - —
Stucco, paper bgs., c.l., Acme, Texas; Akron, N. Y.; Blue Rapids, Kans.; Clarence Center, N. Y.; Fort Dodge, Ia.; Grand Rapids, Mich.; Gypsum, Ohio; Harlem River, N. Y.; National City, Mich.; New Brighton, N. Y.; Plasterco, Ga.; Portsmouth, N. H.; Roton, Tex.; Southard, Okla.; Sweetwater, Tex.; frt. equald..ton. 8.00 - —
Saltville, Va., frt. equald. ton. 9.00 - —
Terra alba, paper bgs., c.l., Harlem River, N. Y.; works..ton.22.50 - —
New Brighton, N. Y., same basis..ton.21.00 - —

H

hawthorn berries, bgs.....lb. .57 - .58
heliotropin, cryst., cns.....lb. 2.95 - 4.00
hellebore, white, powd., bbls..lb. .70 - .71
helonias root, bls.....lb. 2.25 - 2.30
hematine extract, cryst., No. 0, bbls., l.c.l..lb. .44 - —
No. 1, bbls., l.c.l.....lb. .43 - —
No. 1A, bbls., l.c.l.....lb. .40 - —
No. 2, bbls., l.c.l.....lb. .39 - —
No. 3, bbls., l.c.l.....lb. .37 - —
No. 4, bbls., l.c.l.....lb. .35 - —
No. 5, bbls., l.c.l.....lb. .30 - —
hematoxylin paste, No. 1, bbls., l.c.l.....lb. .18½- —
No. 2, bbls., l.c.l.....lb. .17½- —
No. 3, bbls., l.c.l.....lb. .16½- —
hematoxylin red, No. 4, bbls., l.c.l.....lb. .12 - —
hemlock bark extract, 25% tan, bbls., c.l., works..lb. No stocks
tanks, works.....lb. No stocks
henbane leaves, bls.....lb. 1.00 - 1.25
henna leaves, bls.....lb. .25 - .28
powd., bbls., bxs.....lb. .34 - .36
heptane, industrial grade, 90°-100° C., dms., c.l., Group 3, gal. .13½- .16
l.c.l., Group 3.....gal. .19 - .3
tanks, Group 3.....gal. .10¼- .10½
77°-115° C., dms., c.l., Group 3..gal. .13½- .17
l.c.l., Group 3.....gal. .19 - .35
tanks, Group 3.....gal. .10½- .11¼
laboratory grade, dms., c.l., Group 3..gal. .16 - —
l.c.l., Group 3.....gal. .29 - .55
hexalin (see cyclohexanol).
hexaethyl tetraphosphate, cns., works..lb. 1.25 - —
dms., c.l., works.....lb. .80 - —
l.c.l., works.....lb. .90 - 1.00
hexamethylenetetramine, tech., bbls., 1,000-lb. lots, Perth Amboy or N.Y.C..lb. .24 - —
smaller lots, same basis..lb. .25 - —
USP, dms., 500 lbs. or more, same basis..lb. .35 - —
smaller lots, same basis..lb. .36 - —
hexane, 60°-70° C., industrial grades, dms., c.l., Group 3. gal. .14¼- .17
l.c.l., Group 3.....gal. .19 - .35
tanks, Group 3.....gal. .10¾- .11¼
laboratory grade, dms., c.l., Group 3..gal. .16 - —
l.c.l., Group 3.....gal. .29 - .55
hexanol, normal, dms., l.c.l., works..lb. .25 - —
homatropine hydrobromide, bots. oz.15.00 -25.00
Hydrochloride, bots.....oz.20.00 -22.00
hoofmeal, 17-18% ammonia, bulk, c.l., Chicago..unit-ton. 6.75 - —
hops, NF, bls.....lb. .55 - 1.30
horehound, bls.....lb. .12 - .13
hydrangea, root, bls.....lb. .22 - .27
hydrastine, alkaloid, bots....oz.20.00 -22.00
Sulphate, bots.....oz.29.00 -32.00
hydrastinine, 10-gr. bots....bot. 1.95 - —
hydrastis (see Goldenseal).
hydrofuramide, dms., fib. cns., works..lb. .30 - .40
hydrogen peroxide, USP, bbls. lb. .03¾- .04
100 vols., cbys., E. of Miss. River or West coast via Panama Canal..lb. .15½- .18½
hydroquinine bbls., dms.....lb. .90 - .94
hydroxycitronellal, cns. .....lb.13.00 -21.00
dms., extra, ret'able, dlvd..lb.12.50 -16.00
hyoscine hydrobromide, bots..oz.39.00 -45.00
hyoscyamine, bots.....oz.18.00 -20.00
Hydrobromide, bots.....oz.18.00 -19.50
Sulphate, bots.....oz.14.00 -19.50
hypernic extract, cryst., No. 1, bbls., l.c.l..lb. .51 - —
No. 2, bbls., l.c.l.....lb. .43 - —
liquid, No. 1, bbls., l.c.l..lb. .28 - —
No. 2, bbls., l.c.l.....lb. .23 - —
solid, No. 1, bxs., l.c.l....lb. .40 - —
hyssop herb, bgs.....lb. .55 - .60
leaves, bgs.....lb. .60 - .70

I

iceland moss, bgs.....lb. .50 - .52
ichthammol, NF, bots.....lb. 2.45 - —
indian red (see Red, Indian).
indigo, nat., chests.....lb. 2.14 - 2.30
synth., paste, bots.....lb. .16½- .19
powd., bbls.....lb. .74½- .85
indol, CP, bots.....lb.19.00 -22.00
inositol, tins, works.....lb. 5.00 - —
insect flowers (see Pyrethrum).
iodine, crude, 150-lb. kgs., ex whse., Staten Island..lb. 1.729 - —
resubl., 5-lb. bots., jars.....lb. 2.10 - 2.20
iodoform, 100-lb. dms., kgs.....lb. 4.45 - —
ionone ketone, alpha, cns.....lb.15.00 -16.40
beta, cns.....lb.11.50 -12.50
pure, cns.....lb. 6.75 - 9.75
Methyl, A, cns.....lb. 8.50 - 8.80
D, cns.....lb. 9.20 - 9.55
prime, cns.....lb. 6.10 - 6.40
irecac root, bgs.....lb. 5.25 - 5.50
powd., bgs.....lb. 5.50 - 5.75
irish moss, bleached, prime...lb. .25 - .30
iron acetate, liquor, 28°, bbls., c.l., works..lb. .09 - —
l.c.l., works.....lb. .09¾- —
solut., USP IX, 100-lb. cbys.lb. .17 - —
50-lb. djns.....lb. .18 - —
Chloride (ferric), anhydr., tech., dms., c.l., works.100 lbs. 4.90 - 5.25
l.c.l., works.....100 lbs. 6.50 - 6.85
cryst., tech., bbls., works, frt. alld..100 lbs. 4.00 - 6.00
USP X, lump, bbls.....lb. .07 - .08½
solut., 42 Be, cbys., works, frt. alld. or equald..lb. .05½- .06
djns., same basis.....lb. .10 - —
Citrate, gran., dms.....lb. .77 - .79
Glycerophosphate, N.F., powd. lb. 4.35 - —
Hypophosphite, bbls., dms...lb. 1.50 - 1.52
Iodide, bots.....lb. 3.48 - 3.68
Naphthenate, 6% Fe, 50-gal. drms..lb. .19¼- —
Nitrate, red, tech., dms.....lb. .03½- .04
Oxalate, gran., dms.....lb. .33 - .35
powd., cns.....lb. .52 - —
kgs.....lb. .47 - .49
Phosphate, soluble, NF, gran., cs..lb. .54 - .57
Pyrophosphate, NF, gran., soluble, dms..lb. .59 - .62
Reduced, 90%, kgs.....lb. .65 - .75
Resinate, 7.4%, Fe, 100-lb. dms. lb. .22 - —
Stearate, dms., c.l.....lb. .53 - —
ton lots.....lb. .54 - —
less ton lots.....lb. .55 - —
Sulphate (ferric), anhyd., bgs., c.l., works..ton.35.00 - —
l.c.l., works.....ton.40.00 - —
partially hydrated, bgs., c.l., works..ton.26.50 - —
(ferrous) tech. (see Copperas).
USP, cryst., bbls., dms..lb. .06 - .08
Iron-ammonia citrate, brown, green, gran., dms..lb. .45 - .48
Oxalate, bbls.....lb. .23½- —
dms., kgs.....lb. .25½- .26½
Iron-soda oxalate, bbls., dms.lb. .25½- .26½
Isobornyl acetate, cns., works.lb. .80 - .95
Isobornyl thiocyanoacetate, dms., c.l., works..gal. 4.35 - —
l.c.l., works.....gal. 4.45 - 4.55
tanks, works.....gal. 4.25 - —
Isobutyl acetate, cns.....lb. 1.05 - 1.10
Propionate, cns.....lb. No prices.
Isobutyraldehyde, dms., works.lb. .33 - —
10-gallon lots, works.....lb. .36 - —
Isoeugenol, extra, cns.....lb. 3.45 - 4.00
Isopentane, dms., works.....lb. .45 - .55
Isophorone, dms., c.l., works..lb. .21 - —
l.c.l., works.....lb. .22 - —
tanks, works.....lb. .20 - —
Isopropanol (see Alcohol, isopropyl).
Isopropyl acetate, dms., c.l., E. of Rockies, frt. alld..lb. .1160- .1210
l.c.l., E. of Rockies, same basis..lb. .1210- .1260
tanks, E. of Rockies, same basis..lb. .1100- .1160
Alcohol (see Alcohol, isopropyl).
Ether, dms., c.l., dlvd.....lb. .06 - —
l.c.l.....lb. .06¼- —
tanks, dlvd.....lb. .04½- —
Isopropylamine, dms., works..lb. .25 - —

J

Jaborandi leaves, bls.....lb. .25 - .28
Jalap root, NF, bls.....lb. .42 - .45
powd., bbls., bxs.....lb. .50 - .55
Resin, lump, cns.....lb. 5.85 - —
powd., bxs.....lb. 5.90 - —
Juniper berries, bgs.....lb. .12 - .20
Juniper tar, USP, dms.....lb. .68 - 1.00

K

Kamala, powd., cns.....lb. .46 - .48
Kaolin (see China clay).
Kava kava root, bls.....lb. .35 - .40
Kerosene, at refinery; Ark., 42-44 w.w., tanks..gal. .06625- .07125
Bayonne, 41-43, w.w., tanks, gal. .061 - —
California, 40-43, w.w., tanks, gal. .072 - .1155
Gulf ports, 41-43, w.w., tanks, gal. .0600- .0650
Okla.-Tex., 41-43, w.w., tanks, gal. .06875- .07125
Penn., 45 w.w., tanks....gal. .0775- .0795
47 w.w., tanks.....gal. .0825- .083
Kola nuts, bgs.....lb. .06 - .09
Kyanite, imp., low iron content, 10-mesh, whse..ton.85.00 -95.00
calcined, grain, 10-mesh, whse. ton.95.00 -105.00

L

Ladyslipper root, bls.....lb. 1.35 - 1.40
Lanolin (see Adeps lanae).
Lard, cash, Chicago, trcs.....lb. .17¼- .17½
Larkspur seed, bgs.....lb. .75 - .80
Larkspur seed, bgs.....lb. .65 - .70
Laurel berries, bls.....lb. .25 - .26
Leaves, Algerian, bls.....lb. .13 - .13½
Cyprus, bls.....lb. .28 Nom.
Greek, bls.....lb. .12 - .12½
Italian, bls.....lb. .13 - .13½
Portuguese, choice, bls.....lb. .11 - .11½
Turkish, bls.....lb. .12 - .12½
choice, bls.....lb. .17 - .17½
Lavender flowers, medium, bls.lb. .50 - .55
ordinary, bls.....lb. .35 - .45
select, bls.....lb. .65 - .70
Lead, acetate, white, broken, bbls..lb. .18½- —
cryst., bbls.....lb. .19½- —
gran., powd., bbls.....lb. .19¾- —
Arsenate, basic powder, 8-lb. bgs. or larger, c.l..lb. .21¾- —
l.c.l.....lb. .22¾- 23¾
1-lb. bgs, c.l.....lb. .29¼- —
l.c.l.....lb. .30¼- .31¼
Lead arsenate prices are works or whse. basis, frt. alld. on 96 lbs. or more to dest. East.
Blue, basic sulphate, bbls., c.l., 20-ton lots, f.o.b. ship't pt, frt. alld..lb. .15¼- —
l.c.l., works.....lb. .15½- —
Carbonate (see Lead, white).
Chloride, fib. dms.....lb. .49 - —
Iodide, NF V, jars.....lb. 2.94 - —
Linoleate, solid, 13%, bbls..lb. .41¾- —

CALCIUM CARBONATE

The long and the short of it

We have had a lot of experience in meeting the demand for Calcium Carbonate. For years, the paper industry has been using Wyandotte Precipitated Calcium Carbonate as an essential ingredient of high-grade coating, giving whiteness and brightness to the product. In the paint and varnish industry, Wyandotte Precipitated Calcium Carbonate is an extender of superior quality. It is the best reinforcing agent known for many rubber products—lending tensile strength and tear resistance to gloves, hot-water bottles, hospital sheeting and inner tubes. Now industry is finding many *new* uses for Wyandotte Precipitated Calcium Carbonate—such as the calcium enrichment of food products where quality and purity are of paramount importance. All these new demands for Wyandotte Precipitated Calcium Carbonate—coming on top of increasingly heavy demands for old uses—have taxed our production facilities.

Meanwhile, we are doing everything possible to increase production of Wyandotte Precipitated Calcium Carbonate. We are putting up *three new Calcium Carbonate units.* And we look forward to the day when we shall be able to supply every user of quality Calcium Carbonate with all he wants of this versatile chemical.

WYANDOTTE CHEMICALS CORPORATION
WYANDOTTE, MICHIGAN • OFFICES IN PRINCIPAL CITIES

Soda Ash • Caustic Soda • Bicarbonate of Soda • Calcium Carbonate • Calcium Chloride • Chlorine Hydrogen • Sodium Zincates • Aromatic Intermediates • Dry Ice • Other Organic and Inorganic Chemicals

Wyandotte
REG. U. S. PAT. OFF.

Lead, metallic paste, dms., wks. lb. No stocks
Naphthenate, 21% Pb, liquid, dms. lb. .20½- —
80% Pb, liquid, dms. lb. .24¾- —
87% Pb, solid dms. lb. .27½- —
Nitrate, bbls., l.c. lb. .17¾- —
l.c.l. lb. .18 - —
Oleate, bbls. lb. .17¼- —
Peroxide, powd., tech., bbls., lb. .23 - .24
Red, 95% Pb_3O_4 or less, bbls., c.l. (20 tons), f.o.b. ship't point, frt. alld. lb. .1780- —
l.c.l., 5 tons, f.o.b. ship't point, frt. alld. lb. .1800- —
smaller lots, f.o.b. ship't point, frt. alld. lb. .1850- —
in oil, kgs. lb. .2075- —
97% Pb_3O_4, bbls., c.l. (20 tons), f.o.b. ship't point, frt. alld. lb. .1785- —
l.c.l., 5 tons, f.o.b. ship't point, frt. alld. lb. .1825- —
smaller lots, f.o.b. ship't point, frt. alld. lb. .1875- —
98% Pb_3O_4, bbls., c.l. (20 tons), f.o.b. ship't point, frt. alld. lb. .1810- —
l.c.l., 5 tons, f.o.b. ship't point, frt. alld. lb. .1850- —
smaller lots, f.o.b. ship't point, frt. alld. lb. .1900- —
Resinate, precip., 22.8% Pb., dms. lb. .25 - —
Silicate, bgs. lb. .17 - .17½
Soyate, 20.15% Pb., dms. lb. .22¼- —
Stearate, bbls., c.l. lb. .55 - —
ton lots lb. .56 - —
less ton lots lb. .57 - —
Sulphate (see Lead, blue; Lead, white, basic sulphate).
Tallate, 16% Pb., liquid, dms., lb. No prices
30% Pb., solid, dms. lb. No prices

Lead, white, basic carbonate, bbls., c.l., f.o.b. ship't point, frt. alld. lb. .15¾- —
l.c.l., works lb. .16 - —
basic sulphate, bbls., c.l., f.o.b. ship't point, frt. alld. lb. .15¼- —
l.c.l., works lb. .15½- —
in oil, consumers, kgs. lb. .27 - —
painters, kgs. lb. .25¾- —
Lecithin, edible, dms., c.l. lb. .36 - —
l.c.l. lb. .38½- .58½
tech., dms., c.l. lb. .36 - —
l.c.l. lb. .38½- .58½
Lemon peel, bls. lb. .35 - .40
Licorice extract, mass, cns. lb. .40 - .42
powd., bbls. lb. .60 - .62
Root, natural, bls. lb. .09½- .10
powd., bbls. lb. .17 - .18
5-lb. bundles, cs. lb. .60 - .65
Lignin extract, tanning grade, bgs., c.l., works. lb. .04¾- —
Lime, agricultural, bulk, works, tons. 9.00 - 9.80

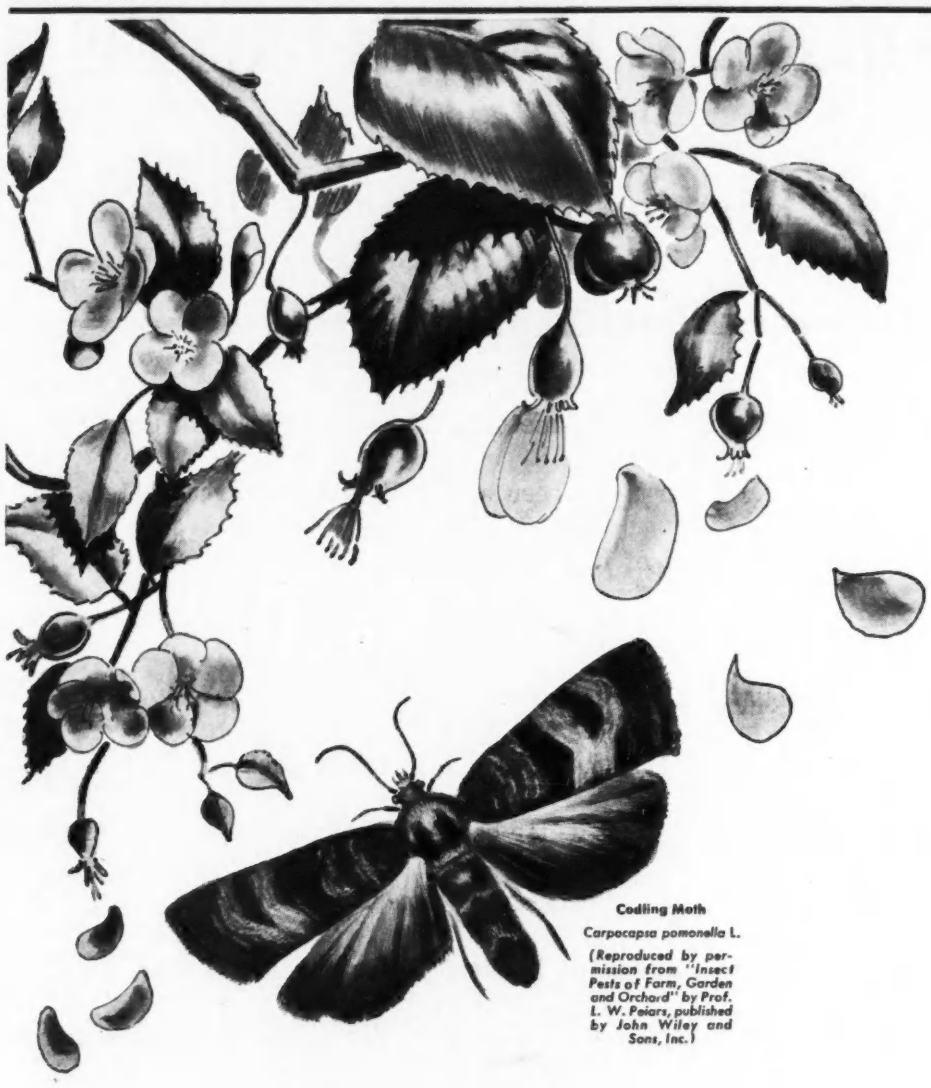
Chemical (quicklime), lump, pebble, Adams, Mass. ton. 9.00 - —
Annville, Pa. ton. 8.50 - —
Bellefonte, Pa. ton. 8.50 - —
Berkeley, W. Va. ton. 8.50 - —
Buffalo, N. Y. ton. 10.25 - —
Carey, Ohio ton. 7.00 - —
Cedar Hollow, Pa. ton. 9.00 - —
Crab Orchard, Tenn. ton. 7.90 - —
Eagle Mountain, Va. ton. 8.50 - —
Farnams, Mass. ton. 9.00 - —
Gibsonburg, Ohio ton. 7.50 - —
Hannibal, Mo. ton. 7.50 - —
Keystone, Ala. ton. 7.90 - —
Knoxville, Tenn. ton. 7.90 - —
Limedale, Ark. ton. 8.00 - —
Longview, Ala. ton. 7.90 - —
Manistique, Mich. ton. 8.00 - —
Marblehead, Ohio. ton. 8.50 - —
Martinsburg, W. Va. ton. 8.50 - —

Lime, chemical (quicklime), lump, pebble, Menominee, Mich. ton. 8.00 - —
Mitchell, Ind. ton. 7.50 - —
Newala, Ala. ton. 7.90 - —
Ripplemead, Va. ton. 8.50 - —
Riverton, Va. ton. 8.50 - —
Rockland, Maine. ton. 8.00 - —
Scioto, Ohio. ton. 6.50 - —
Sherwood, Tenn. ton. 8.39 - —
Sherwood, Wisc. ton. 8.50 - —
Springfield, Mo. ton. 8.00 - —
Woodville, Ohio. ton. 8.50 - —
York, Pa. ton. 8.50 - —
Hydrated, paper bgs., Adams, Mass. ton. 11.25 - —
Annville, Pa. ton. 11.00 - —
Bellefonte, Pa. ton. 11.00 - —
Berkeley, W. Va. ton. 10.00 - —
Buffalo, N. Y. ton. 11.00 - —
Carey, Ohio. ton. 8.50 - —
Cedar Hollow, Pa. ton. 11.00 - —
Crab Orchard, Tenn. ton. 10.65 - —
Eagle Mountain, Va. ton. 10.00 - —
Engle, W. Va. ton. 11.00 - —
Farnams, Mass. ton. 11.00 - —
Gibsonburg, Ohio. ton. 9.50 - —
Hannibal, Mo. ton. 9.50 - —
Keystone, Ala. ton. 11.65 - —
Knoxville, Tenn. ton. 11.00 - —
LeRoy, Minn. ton. 10.00 - —
Limedale, Ark. ton. 10.00 - —
Longview, Ala. ton. 11.65 - —
Manistique, Mich. ton. 9.50 - —
Marblehead, Ohio. ton. 10.50 - —
Mitchell, Ind. ton. 10.00 - —
Newala, Ala. ton. 11.65 - —
Petoskey, Mich. ton. 10.00 - —
Port Island, Mich. ton. 9.00 - —
Rapid City, S. Dak. ton. 12.00 - —
Ripplemead, Va. ton. 10.00 - —
Rockland, Maine. ton. 9.00 - —
Scioto, Ohio. ton. 8.00 - —
Sherwood, Tenn. ton. 12.14 - —
Sherwood, Wis. ton. 10.00 - —
Springfield, Mo. ton. 9.00 - —
Woodville, Ohio. ton. 8.50 - —
York, Pa. ton. 11.00 - —

Lime, spray, Adams, Mass., paper ton. 11.00 - —
Annville, Pa. ton. 11.00 - —
Bellefonte, Pa. ton. 11.00 - —
Carey, Ohio. ton. 11.00 - —
Engle, W. Va. ton. 11.00 - —
Farnams, Mass. ton. 9.50 - —
Gibsonburg, Ohio. ton. 10.00 - —
Marblehead, Ohio. ton. 10.00 - —
Rockland, Maine. ton. 10.00 - —
Scioto, Ohio. ton. 10.00 - —
Woodville, Ohio. ton. 10.00 - —
York, Pa. ton. 11.00 - —
Lime salts (see Calcium).
Lime-ammonia-nitrogen[s] 20.5% N. (see Ammonia nitrate-lime-stone).
Limestone, ground, bulk, works. ton. 1.40 - —
Linalool, ex bois de rose. lb. 7.75 - 8.15
ex lignaloe wood. lb. 6.50 - 7.00
Linalyl acetate, ex bois de rose, bots. lb. 6.40 - 7.30
ex lignaloe wood, bots. lb. 8.25 - 8.40
ex petitgrain, bots. lb. 5.10 - 6.35
Linden flowers with leaves, bls. lb. .40 - .42
without leaves, bls. lb. .50 - .51
Linseed meal, 34% bulk, mills. ton. 68.00 -69.00
Litharge, com'l, powd., bbls., c.l., f.o.b. ship't point, frt. alld. lb. .1560- —
l.c.l., 5 tons, f.o.b. ship't point, frt. alld. lb. .17 - —
smaller lots, f.o.b. ship't point, frt. alld. lb. .17½- —
Lithium bromide, bbls., 100-lb. lots, works, frt. equald. ton. 1.90 - —
Carbonate, NF, bbls., kgs. lb. 1.15 - —
Chloride, jars lb. 1.15 - 1.65
Citrate, bbls., dms., kgs. lb. 1.30 - 1.45
Fluoride, bbls. lb. 1.90 - —
Hydroxide, jars lb. 1.15 - 1.25
Lithopone, ordinary, bgs., c.l., (20 tons). lb. .05½- —
l.c.l. lb. .05¾- —
bbls., c.l. lb. .05¾- —
l.c.l. lb. .06 - —
Titanated (high-strength), bgs., lb. .07¼- —
smaller lots lb. .07½- —
bbls., c.l. lb. .07½- —
smaller lots. lb. .07¾- —
Lithopone, c.l., divd. Pac. Cst., ¼c. higher; l.c.l., ex whse. Pac. Cst. ½c. higher.
Liverwort leaves, bls. lb. .65 - .70
Lobelia herb, bls. lb. .73 - .75
Lobeline sulphate, bots., wks. oz. 25.50 -38.00
Logwood extract, crystals, No. 1, bbls., l.c.l. lb. .37 - —
No. 2, bbls., l.c.l. lb. .35 - —
liquid, No. 1, bbls., c.l. lb. .18 - —
No. 2, bbls., l.c.l. lb. .17 - —
No. 3, bbls., l.c.l. lb. .16½- —
No. 4, bbls., l.c.l. lb. .16 - —
solid, No. 1, bxs., l.c.l. lb. .32 - —
No. 2, bxs., l.c.l. lb. .30 - —
No. 4, bxs., l.c.l. lb. .27½- —
No. 5, bxs., l.c.l. lb. .25½- —
No. 6, bxs., l.c.l. lb. .43½- .48½
Lovage root, imported, bls. lb. 1.20 - 1.25
Lupulin, NF, tin lb. 10.00 -11.00
Lycopodium, USP, cs. lb. 2.50 - 3.00

M

Mace, No. 1, Siauw, cs. lb. 1.50 - 1.55
East Indian, bgs., futures. lb. 1.60 - 1.65
West Indian, bgs., futures. lb. 1.45 - 1.50
Broken, bgs., futures. lb. 1.30 - 1.40
Madder, Dutch, bgs. lb. .29 - .32
Magnesia arsenate, bgs., cans, works. lb. .20 - .30
Calcined, tech., bbls., works, lb. .29 - —
USP, works. lb. .31 - .75
Carbonate, tech., bgs., c.l., frt. equald. lb. .07¼- —
l.c.l., frt. alld. lb. .08¼- —
bbls., c.l., frt. equald. lb. .08½- —
l.c.l., frt. alld. lb. .09½- —
kgs., c.l., frt. equald. lb. .09¾- —
l.c.l., frt. alld. lb. .10¾- —
USP, bgs., c.l., frt. equald. lb. .09 - —
l.c.l., frt. alld. lb. .10 - —
bbls., c.l., frt. equald. lb. .09½- —
l.c.l., frt. alld. lb. .10½- —
kgs., c.l., frt. equald. lb. .10¾- —
l.c.l., frt. alld. lb. .11¾- —
Magnesia carbonate is quoted frt. alld. to N. J., except to Atlanta, Burlington, Cape May, Cumberland, Glostershire, Ocean, and Salem counties, and to Phila. county, Pa. Frt. equald. to N.Y.C. on all other destinations.
Chloride, anhyd., bbls., divd. lb. .12¾- —
flake, bbls., c.l., works. ton. 37.00 - —
l.c.l., works. ton 44.00 -46.00
Fluoride, bbls. lb. .20 - .25
Hydroxide, medicinal, bbls., dms., kgs. lb. .29 - .30
Hypophosphite, cns. lb. 1.45 - —
Laurate, bbls. lb. .33 - .38
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works. lb. 1.00 - 1.05
Phosphate, tribasic, USP, bbls. lb. .62 - .6.
Silicate (see Talc).
Silicofluoride, bbls. lb. .14 - .16
Stearate, ctns., 2,000 lbs. to c.l. lb. .51 - —
smaller lots. lb. .52 - —
Sulphate (see Epsom salt).
Trisilicate, dms., 1,000-lb. contracts. lb. .37 - —
smaller lots. lb. .42 - —
Magnesite, calcined, powd., bgs., c.l., mines, Calif. ton. 60.00 - —
dead-burnt, bulk, c.l., Chewelah, Wash. ton. 24.00 - —
Maleic anhydride, dms., c.l. lb. .25 - —
l.c.l. lb. .26 - —
Malva flowers, black, bls. lb. No stocks
blue, bls. lb. 1.45 - 1.50
Leaves, bls. lb. .40 - .41
Manaca root, bls. lb. .49 - .50
Mandrake root, bls. lb. .40 - .45
Manganese acetate, dms. lb. .25½- —
Arsenate, bgs. lb. .12 - .12¼
Borate, tech., bbls. lb. .16 - .18
Carbonate, bbls. lb. .19 - —
Chloride, anhyd., bbls., wks. lb. .14 - .16
Dioxide, African, battery, 84%-87%, bbls., 28-40 tons, works. ton. 74.00 - —
smaller lots, works. ton. 77.00 -82.00
85-90%, bbls., c.l., works. ton. 74.00 - —
smaller lots, works. ton. 77.00 -82.00
84-87%, burlap bgs., c.l., works. ton. 71.75 - —
l.c.l., works. ton. 74.75 -79.79
paper bgs., c.l., works. ton. 70.00 - —
l.c.l., works. ton. 73.00 - —
Glycerophosphate, fib. dms. lb. 4.25 - —
Hydrate, bbls., divd. lb. .26 - —
Iodide, jars lb. 5.55 - —
Linoleate, liquid, 4% Mn, dms. lb. .42¾- —
solid, precip., 8.2%, bbls. lb. .44¾- —



Codling Moth
Carpocapsa pomonella L.
(Reproduced by permission from "Insect Pests of Farm, Garden and Orchard" by Prof. L. W. Peiars, published by John Wiley and Sons, Inc.)

SANTOBANE

(MONSANTO DDT)

The codling moth is one of many pests that are successfully controlled with formulations containing Santobane.* Santobane is a uniform, free-flowing, granular material that can be easily solubilized, emulsified or milled.

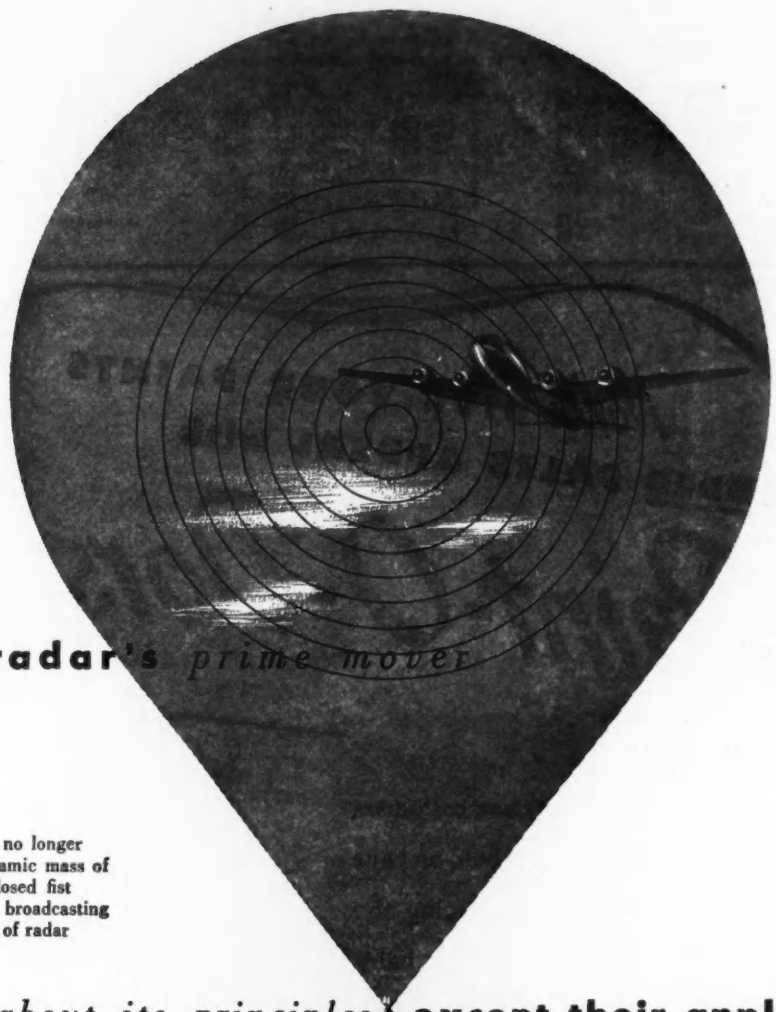
Santobane is an established Monsanto product. While present supplies are not equal to demands, production will be increased as soon as raw materials become available in sufficient quantities.

Inquiries concerning properties and uses of Santobane will receive prompt attention . . . MONSANTO CHEMICAL COMPANY, Organic Chemicals Division, 1700 South Second Street, St. Louis 4, Missouri. *Reg. U. S. Pat. Off.

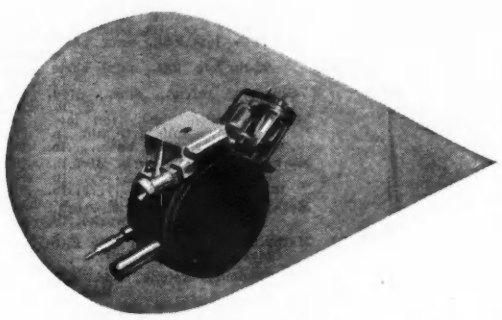
MONSANTO
CHEMICALS AND PLASTICS

SERVING INDUSTRY . . . WHICH SERVES MANKIND

dynamic **medicinals** *for a dynamic age*



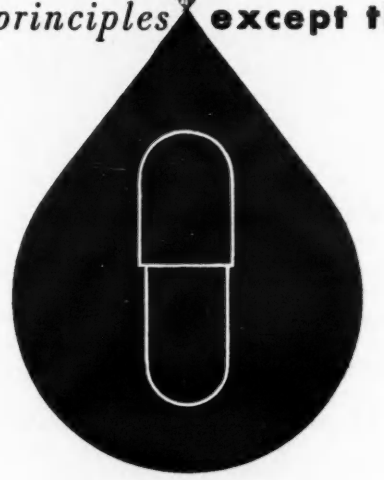
radar's *prime mover*



Perfected during the war, the Magnetron no longer even looks like a radio tube. From a dynamic mass of metal and glass smaller than a man's closed fist surges power far greater than that of any broadcasting station. The Magnetron is the prime mover of radar and the entire electronics industry.

yet there is nothing new about its principles **except their application**

vitamins



Owners of private formulae for vitamins approve Strong Cobb's dynamic manufacturing which produces medicaments of elegance to obviate customer resistance. Unpleasant taste and odor are removed. The resulting vitamin passes the critique of the most discriminating.

Liquids, tablets, capsules and creams have tomorrow's precision control engineered into them by Strong Cobb's dynamic manufacture.

Whether you are considering immediate or future production our technical sales director will be pleased to talk over your manufacturing problems with you.

Strong Cobb & Company, Inc.

Strong Cobb Division of Standard Brands Incorporated
Cleveland 4, Ohio

Manganese naphthenate, 6% Mn, liquid, dms..lb. .21 - —
10% Mn, solid, dms.....lb. .83½- —
Resinate, fused, 3½% Mn, bbls. lb. .09 - .10½
precip., dms. .....lb. .20 - —
Soyate, 8.2% Mn, dms.....lb. .22 - —
Sulphate, anhyd., dms., works. lb. No stocks.
feed grade, 77-80%, bgs....lb. .04 - .06
fertilizer grade, 65%, bgs., c.l., dlvd. East..ton.56.00 - —
l.c.l., same basis, or Balto. or Cincinnati... ton.63.00 - —
industrial grade, 80%, bgs.lb. .05 - .05¾
75%, bgs., c.l., dlvd. East. ton.64.50 - —
l.c.l., same basis.....ton.71.50 - —
Tallate, 4% Mn, liquid, dms.lb. No prices.
8% Mn, solid, dms.....lb. No prices.
Mangrove bark, E. Africa, 38% tannin, c.l., ex dock, U. S. ports..ton.60.00 -62.00
Manna, flake, large, cs.....lb. 1.50 - 1.55
small, cs. .....lb. No stocks.
Mannitol, com'l, bbls., works.lb. .38 - .43
reagent, cs. or multiples, works..lb. .85 - —
Marjoram, Argentine, bls.....lb. .14 Nom.
Chilean, bls. .....lb. .10 - .10½
futures, bls.....lb. .09½- .10
Matico leaves, bls.....lb. .17 - .18
Menadione, USP, bots., works. gram. .10 - —
Menthol, natural, USP, Brazilian. cns..lb. 8.50 - 8.75
synthetic, tech., cns.....lb. 6.00 - 6.40
USP, laevo, cns.....lb. No prices.
racemic, cns. .....lb. 7.00 - 7.40
Menthyl salicylate, tins.....lb. 3.00 - 3.10
Mercurial ointment, USP, mild, 10%, dms..lb. .70 - .72
strong, dms. .....lb. 1.68 - 1.70

Mercury bichloride (see Corrosive sublimate).
Bisulphate, dms. .....lb. 2.33 - 2.35
Chloride (see Calomel).
Cyanide, crys., powd.....lb. 3.54 - 3.59
Iodide, red, NF, dms.....lb. 4.32 - —
yellow, NF, fib. dms....lb. 4.42 - —
Oxide, red, NF (see Red precipitate).
yellow, USP, fib. dms.....lb. 2.74 - 2.76
tech. (see Yellow, mercury oxide).
Mesityl oxide, dms., c.l., dlvd.lb. .13 - —
l.c.l., dlvd. .....lb. .13½- —
tanks, dlvd. .....lb. .11½- —
Metal leaf, composition, 5½x5½ in..pkg. .No stocks.
Gold X+, deep, 23, 3⅜x3⅜ in., pkg. No stocks.
Silver, 3⅜x3⅜ in.....pkg. No stocks.
Metanitroparatoluidin, bbls....lb. 1.16 - 1.21
Metaphenylenediamine, kgs....lb. .72 - —
Metatolylenediamine, kgs....lb. .77 - —
Methanol, natural, Group A, all grades, dms., extra, c.l., E. of Miss. R..gal. .63 - —
l.c.l., same basis.....gal. .73 - —
tanks, same basis.....gal. .60 - —
Group B, all grades, dms. incl. c.l., frt. alld..gal. .67 - —
l.c.l., same basis....gal. .78 - —
tanks, same basis....gal. .60 - —

Prices on natural methanol W. of Miss. R., 3c. higher.

synthetic, dms., c.l., Zone 1, frt. alld..gal. .34½- —
2, frt. alld. or dlvd...gal. .37½- —
3, frt. alld.....gal. .41½- —
4, frt. alld.....gal. .41½- —
l.c.l., Zone 1, frt. alld. or dlvd..gal. .37 - —
2, frt. alld.....gal. .44 - —
3, dlvd. S. F. and L. A. gal. .42 - —
4, frt. alld. or dlvd....gal. .52½- —

Methanol, synthetic, tanks, Zone 1, frt. alld..lb. .24 - —
2, frt. alld.....gal. .27 - —
3, frt. alld.....gal. .29 - —
4, frt. alld.....gal. .29 - —

Synthetic methanol zones are: Zone 1—Conn., Del., D. C., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb., N. H., N. J., N. Y., N. C., O., Pa., R. I., S. C., Tenn., Vt., Va., W. Va., and Wis. Zone 2—Ala., Ark., Col., Fla., Ga., Kan., La., Miss., N. Mex., N. Dak., Okla., S. Dak., Tex., and Wyo. Zone 3—Los Angeles and San Francisco. Zone 4—Ariz., Calif. (with exception of Los Angeles and San Francisco), Ida., Mont., Nev., Ore., Utah, and Wash. Buyers in zone 4 have the option of buying at the delivered zone 4 price or at the zone 3 price, f.o.b. Los Angeles and San Francisco.

Methyl abietate, non-ret. dms., c.l., dlvd..lb. .16 - —
10 dms.....lb. .16½- —
1-9 dms.....lb. .17 - —
hydrogenated, c.l., dlvd....lb. .17½- —
10 dms., dlvd.....lb. .17¾- —
1-9 dms., dlvd.....lb. .18¼- —
Acetate, CP, 97-99%, dms., c.l., E. of Miss..lb. .10½- .12
W. of Miss.....lb. .11½- .12
l.c.l., E. of Miss.....lb. .11 - .14
W. of Miss.....lb. .12 - .13½
tanks, E. of Miss.....lb. .09½- —
W. of Miss.....lb. .10½- —
tech., dms., c.l., E. of Miss.lb. .07 - .09
W. of Miss.....lb. .08 - —
l.c.l., E. of Miss.....lb. .07½- .11
W. of Miss.....lb. .08½- .10½
tanks, E. of Miss.....lb. .06 - —
W. of Miss.....lb. .07 - —
Acetoacetate, dms., c.l., works, frt. alld..lb. .09½- —

Methyl acetone, natural, Group A, dms., extra, c.l., E. of Miss., frt. alld..gal. .66 - —
l.c.l., same basis....gal. .76 - —
tanks, same basis....gal. .60 - —

Natural methyl acetone prices W. of Miss. R., 3c. per gal. higher.

Group B, dms., incl., c.l., E. Miss., frt. alld..gal. .67 - —
l.c.l., same basis....gal. .78 - —
tanks, same basis....gal. .60 - —
synthetic, dms., c.l., works, frt. alld. E..lb. .49 - —
frt. alld. W.....lb. .51½- —
l.c.l., works, frt. alld. E. lb. .53 - —
frt. alld. W.....lb. .55½- —
tanks, works, frt. alld. E.lb. .42½- —
frt. alld. W.....lb. .44½- —

Methyl acetone, synth. East territory is all states East of and including Colo., Mont., N. Mex. and Wyo. West territory, all states West of Colo., Mont., N. Mex. and Wyo.
Alcohol (see Methanol).
Anthranilate, dms.....lb. 2.20 - 2.50
bots., cns.....lb. 2.20 - 2.60
Benzoate, cns.....lb. .45 - 1.20
Bromide, cns.....lb. .63 - .65
cyls. .....lb. .55 - .70
Chloride, indust. grade, cyl., works..lb. .16 - —
tanks, multi-unit, works.lb. .14¾- —
single-unit, works.....lb. .14 - —
refrigeration grade, indust. consumers, refrigeration machinery mfgrs., cylinders, dlvd..lb. .33 - —
retail refrigeration consumers or service men, cylinders, dlvd..lb. .41 - —
Alcohol (see Methanol).
Cinnamate, cns.....lb. 2.00 - 3.50
Formate, dms.....lb. .89 - —
Iodide, bots.....lb. 3.00 - 3.25
Lactate, dms., c.l., dlvd....lb. No stocks
Oleate, dms., c.l.....lb. No prices
Salicylate, dms., 500 lbs....lb. .40 - —
25-50 lbs.....lb. .45 - —
Methylamyl ketone, cns., dms., works..lb. No stocks
Methylcellulose, special, vis. (4,000 cps.) fib. ctns., 2,000 lbs. or more, frt. alld..lb. .60 - —
smaller lots, frt. alld....lb. .65 - .70
standard vis. (15-1,500 cps), fib. ctns., 2,000 lbs. or more, frt. alld..lb. .53 - —
smaller lots, frt. alld....lb. .58 - .63
Methylcyclohexane, 98-100% dms., works..lb. .16 - —
Methylcyclohexanol, 98-100%,... dms., works..lb. .23 - —
Methylcyclohexanone, 98-100%,... dms., works..lb. No stocks
Methylene blue, USP, 100-lb. lots, kgs., frt. equald..lb. 2.20 - .—
50-lb. lots kgs., same basis, lb. 2.30 - —
25-lb. lots, kgs., same basis, lb. 2.35 - —
Chloride, refrig., dms., dlvd. E..lb. .12 - .13
Methyleneanilin, dms., ton lots, min. frt. alld..lb. .36 - —
smaller lots, same basis....lb. .37 - —
Methylethyl ketone, dms., dlvd.lb. .10½- —
l.c.l., dlvd.....lb. .11 - —
tanks, dlvd.....lb. .09 - —
Methylhexyl ketone, dms., tech., works..lb. .60 - —
Methylisobutyl carbinol (see Carbinol, methylisobutyl).
Methylisobutyl ketone, dms., c.l., dlvd..lb. .14 - —
l.c.l., dlvd.....lb. .14½- —
tanks, dlvd.....lb. .12½- —
Methylnaphthyl ketone, cns....lb. 3.00 - 3.75
Methylpentanediol, dms., dlvd., works..lb. .24½- —
l.c.l., dlvd.....lb. .25½- —
tanks, dlvd.....lb. .23 - —
Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l., works.lb. .03½- —
roofing, 20 to 80 mesh, works, lb. .03¼- —
graphite, bulk, Pa., mines.ton.80.00 - —
wet-grd., biotite, bgs., c.l., works, frt. alld. E..lb. .05¼- —
l.c.l., ex whse. or frt. alld. E..lb. .05¾- —
extra fine, bgs., c.l., works, frt. alld. E..lb. .05 - —
l.c.l., ex whse. or frt. alld. E..lb. .05½- —
paint or lacq., bgs., c.l., works, frt. alld. E..lb. .06½- —
l.c.l., ex whse. or frt. alld. E..lb. .07 - —
rubber, bgs., c.l., works, frt. alld. E..lb. .06¼- —
l.c.l., ex whse. or frt. alld. E..lb. .06¾- —
wallpaper, bgs., c.l., works, frt. alld. E..lb. .06½- —
l.c.l., ex whse. or frt. alld. E..lb. .07 - —
white, extra fine, bgs., c.l., works, frt. alld. E..lb. .06¾- —
l.c.l., ex whse, or frt. alld. E..lb. .07¼- —
mica, wet-grd., W. of Miss. R., ½c. higher; W. of Rockies, ¾c. higher.
Milk powder, skimmed, roller, bulk, c.l..lb. .09¼- .10¼
spray, bulk, c.l.....lb. .10¼- .11¼
whole, roller, bbls., c.l....lb. No stocks.
spray, bbls., c.l.....lb. .34½- .36
Milk sugar, bbls., c.l., works.lb. .26 - —
l.c.l., works .....lb. .26¾- .27¼
Mineral spirits (see Petroleum, mineral spirits).
Molasses, blackstrap, tanks..gal. .22 - .28
Molybdate orange (see Orange, molybdate).
Molybdenum metal, kgs., 99%, Mo. powd..lb. 2.60 - 3.00
Trioxide, pure, kgs., works, basis Mo. content..lb. .95 - —
technical, kgs., works, basis Mo. content..lb. .80 - —
Monoamylamine, dms., c.l., works, basis 100%..lb. .61 - —
l.c.l., works, basis 100%...lb. .64 - —
Monochlorobenzene, dms., c.l., works, frt. equalized with comp. points..lb. .06 - .07½
l.c.l., works .....lb. .06½- .08½
tanks, works, frt. equalized with comp. points..lb. .05½- .06
smaller containers, works.. lb. .09 - .10
Monoethanolamine, dms., c.l., frt. alld. E..lb. .24 - —
l.c.l., same basis.....lb. .25 - —
tanks, same basis.....lb. .23 - —
Monoethylamine, dms., c.l., wks. basis 100%..lb. .17 - —
l.c.l., works, basis 100%..lb. .18 - —
tanks, basis 100%, works..lb. .15 - —
Monomethylamine, anhydrous, cyl., works, frt. alld. E. of Miss. basis 100%..lb. .32½- —
solution, dms., works, frt. alld. E. of Miss., basis 100%, lb. .37 - .43½
tanks, same basis.....lb. .32 - —
Monomethylpara-aminophenol sulphate, dms..lb. 2.40 - 2.90
Monosodium phosphate (see Soda phosphate, monobasic).

Now—GIVE YOUR PAINTS
ADDED SALES APPEAL with
Paint-O-Dors

You can now attract new customers and keep them firmly sold on your paint products by replacing the unpleasant odors of fresh paint with such appealing fragrances as pine, cedar or citrus.

Givaudan's new PAINT-O-DORS do this job easily and effectively at low cost. A complete line is available for use in oil paints, cold-water paints, enamels and lacquers.

PAINT-O-DORS in no way affect the viscosity, drying time, color or other qualities of paints. They volatilize completely during the drying, and therefore leave no odor once the paint is completely dry.

For full information, write for Technical Bulletin OP-47-1 on PAINT-O-DORS.

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Industrial Products Division

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Morphine, bots., 5 ozs.....oz.11.10 - —
cns., 25 ozs.....oz.10.90 - —
Acetate, bots., 5 ozs.....oz. 9.00 - —
cns., 25 ozs.....oz. 8.80 - —
Hydrobromide, 5 ozs.....oz. 8.95 - —
cns., 25 ozs.....oz. 8.70 - —
Hydrochloride, bots., 5 ozs..oz. 9.00 - —
cns., 25 ozs.....oz. 8.75 - —
Sulphate, bots., 5 ozs.....oz. 9.00 - —
cns., 25 ozs.....oz. 8.75 - —
Morpholine, dms., l.c.l., works. lb. .67 - —
smaller containers, works...lb. .75 - —
Mullein leaves, cns.....lb. .12 - .13
Musk, nat., Tonquin grains, bots. oz.55.00 -60.00
synthetic, ambrette, cns..... 8.00 -14.25
ketone, cns., 100 lbs. or more. lb. 4.60 - 4.95
25 lbs. .....lb. 4.70 - 5.05
5 lbs. .....lb. 4.80 - 5.15
xylol, cns. .....lb. 1.10 - 1.80
25 lbs. .....lb. 1.20 - 1.90
5 lbs. .....lb. 1.30 - 2.00
Muskroot, bls. .....lb. No prices.
Mustard seed, Calif., brown, bgs. lb. .16½- .17
yellow, bgs. .....lb. .21 Nom.
Danish, yellow, bgs.....lb. .18½- .19
Dutch, yellow, bgs.....lb. .22½- .23
Montana, brown, bgs.....lb. .15 - .15½
yellow, bgs.....lb. .18½- .19
futures, source.....lb. .15½- .16
oriental, bgs.....lb. .09 - .09½
futures, f.o.b. source...lb. .07 - .07½
Washington, yellow, bgs....lb. No prices.
Myrobalans, J1, good quality, ex dock..ton.47.00 - —
J2, same basis.....ton.43.00 - —

N

Naphtha painters (see Petroleum naphtha, V. M. & P.).
Solvents (see S).
Naphthalene, dom., crude, 74° bgs., c.l., frt. equald..lb. — - —
bbls., c.l., same basis..lb. — - —
tanks, same basis.....lb. .035 - .0475
78°, bgs., c.l., same basis.lb. — - —
bbls., c.l., same basis..lb. .0410- —
l.c.l., same basis.....lb. .0435- —
tanks, same basis.....lb. .0375- .05
refined, balls, flakes, bbls., wholesalers and jobbers, c.l., works..lb. .09½- —
50-lb. cs., same basis....lb. .09¾- —
1-lb. pkgs., same basis..lb. .11 - —
Neocinchophen, USP, dms., works. lb. 7.00 - 7.10
Nepheline syenite, glass grade, 24 mesh, bulk, Rochester, N. Y..ton.13.75 - —
pottery grade, 200 mesh, bulk, Rochester, N. Y..ton.17.25 - —
Nepheline syenite in bgs. $2 per ton higher than bulk.
Nerolin, crys., cns.....lb. 1.70 - 2.00
Niacin (see Acid, nicotinic).
Nickel, carbonate, bbls.....lb. .39 - —
Chloride, bbls.....lb. .20 - —
Cyanide, bots., dms.....lb. 1.75 - 2.00
Oxide, black, bbls.....lb. .35 - .38
Salt, bbls.....lb. .14 - .14½
Nicotinamide, USP, dms., works. kilo.10.50 -10.80
Nicotine sulphate, 40%, dms., 50 lbs., to dealers, frt. allowed over 50 lbs..lb. .088 - —
tins, 10 lbs.....lb. 1.105 - —
Nikethamide, bots., cbys.....lb. 6.50 - 7.50
Nitercake, bulk, works.....ton.20.00 -24.00
Nitrobenzene, dbl. dist., dms., c.l. lb. .08½- .08¾
l.c.l. .....lb. .09½- .10
tanks .....lb. .07½- .07¾
Nitrocellulose, alcohol-soluble, ¼ sec., 30-35 cps., bbls., works, dry weight..lb. .26 - —
5-6, 40-60 cps, same basis. lb. .27 - —
ester-soluble, 5-6, 15-16 cps. and higher, bbls., works, dry weight..lb. .20 - —
Nitrocellulose:—Denatured alcohol used in manufacture is charged extra. Barrels extra, but returnable.
Nitroethane, dms., works.....lb. .25 - —
Nitrogen solut., tanks.....ton.107.00 - —
Nitrogen solution prices are frt. alld. with Hopewell, Va., and Military, Kan.
Nitrogenous process tankage, bulk, works..unit-ton. 4.00 - 4.50
Sewage sludge, bulk, works.... unit-ton.3.80+.40- —
Nitromethane, dms., c.l., works. lb. .25 - —
Nitronaphthalene, bots.....lb. .24 - .25
Nitropropane 1, dms., works..lb. .25 - —
2, dms., works.....lb. .25 - —
Nutgalls, bgs.....lb. .44 - .50
Nutmegs, West Indian, bgs...lb. .70 - .71
futures, afloat .....lb. .68 - .69
East Indian, bgs., futures....lb. .62 - .63
Nux vomica, bls.....lb. .09 - .10
powder, bbls., bxs.....lb. .12 - .13

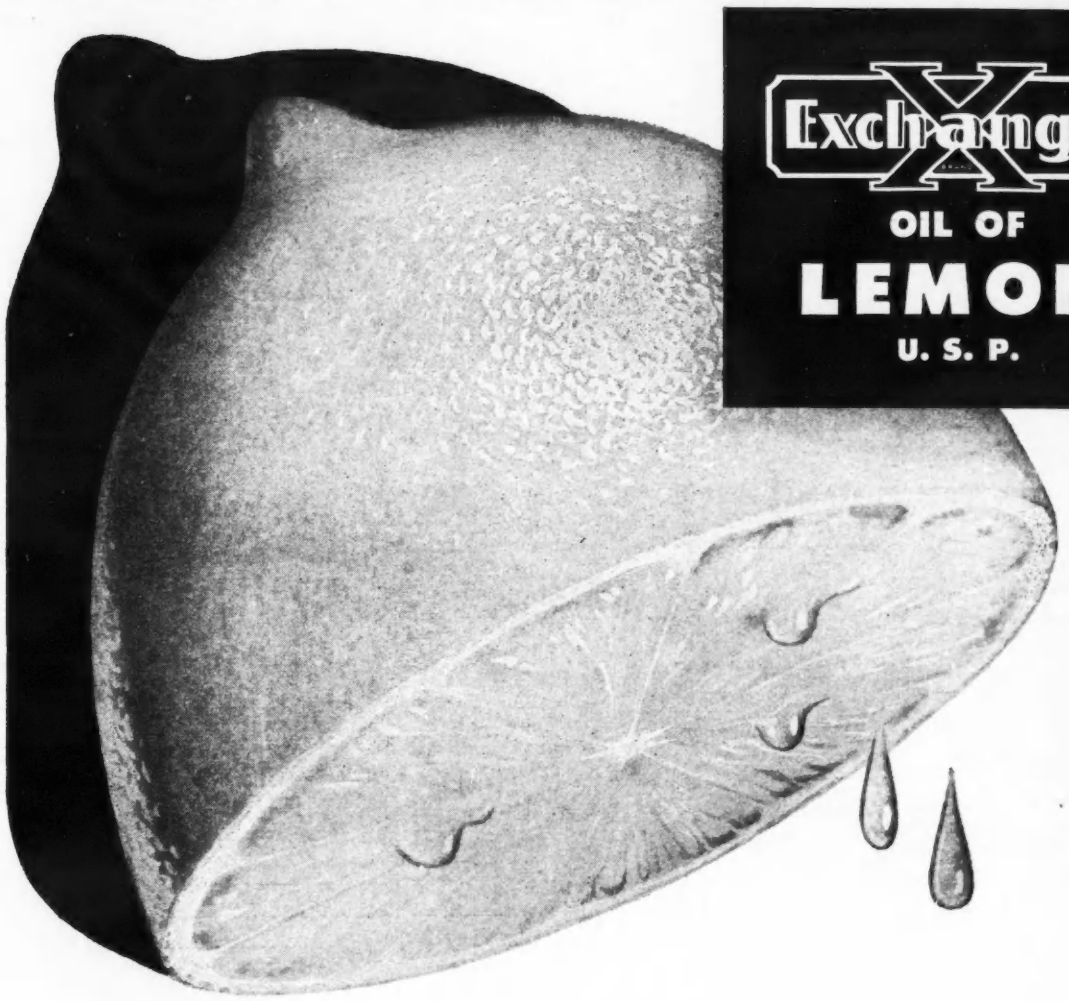
O

Oakbark extract, 25% tannin, bbls., c.l., works..lb. No stocks
Octane, 100° C-140° C, industrial grade, dms., c.l., G. 3..gal. .16 - —
l.c.l., G. 3.....gal. .29 - —
10 gals., G. 3.....gal. .55 - —
tanks, G. 3.....gal. .13 - —
Octanol (see Alcohol, ethylhexyl).
Oil, almond, artificial (see Benzaldehyde).
Bitter, F.P.A., bots.....lb. 4.50 - 5.00
NF, bots. .....lb. 4.00 - —
sweet, ex., dms., cns.....lb. .90 - 1.10
Angelica root, bots.....lb.40.00 -250.00
Seed, bots. .....lb.120.00 -200.00
Anilin (see A).
Anise, USP, Chinese, dms...lb. .80 - 1.00
Russian, cns. .....lb. 3.75 - —
Apricot kernel, cns.....lb. .65 - .85
Avocado, cns., dms.....lb. 1.00 - 1.10
Babassu, tanks .....lb. No prices
Bay, NF, W. I., 50-55%, cns..lb. 1.43 - 1.75
Puerto Rican, 50-55%, cns..lb. 1.58 - 2.00
Bergamot, artif., cns.....lb. 4.00 - —
natural, Italian, cns.....lb. 4.95 - 5.50
Birch (see Oil, sweet, birch).
Birchtar, crude, cns.....lb. No prices
rectified, cns. .....lb. No stocks
Bois de rose, Brazil, cns....lb. 4.10 - 5.75
Mexican (see Oil, lignaloe wood).
Bone, dms., works.....gal. .65 - .70
Cajeput, tech., dms.....lb. 2.75 - 3.20
redistilled, USP IX, cns....lb. 2.60 - 3.20
Calamus, crs. .....lb.22.50 -28.00
Camphor, white, nat., cns...lb. .20 - .75
synthetic, dms. .....lb. .15 - .35
Cananga, native, cns.....lb. 8.00 - 9.00
rectified, cns. .....lb.12.00 - —
Capsicum (see Capsicum oleoresin).
Caraway, NF, cns.....lb. 5.60 - 6.50
Cardamom, bots. .....lb.23.50 -31.50
Cassia, USP, cns.....lb. 3.10 - 3.65
Castor, blown, ret. dms., c.l..lb. No prices
l.c.l. .....lb. No prices
cold-pressed, USP, ret. dms., c.l..lb. .30 - —
l.c.l. .....lb. .31 - —
tanks .....lb. .29 - —

Oil, castor, dehydrated, bodied, dms., c.l. lb. .32¾- —
l.c.l. .....lb. .33½- —
tanks .....lb. .32 - —
unbodied, dms., c.l.....lb. .31¾- —
l.c.l. .....lb. .32½- —
unbodied, tanks .....lb. .31 - —
No. 3, tech., dms., c.l.....lb. .29¾- —
l.c.l. .....lb. .30¾- —
tanks .....lb. .28¾- —
sulphonated, 50% (48% fat), dms..lb. .16½- .17
75% (62-64% fat), dms....lb. .24 - .25
Cedarleaf, USP, cns., dms...lb. 2.45 - 2.65
Cedarwood, cns.....lb. .93 - 1.05
dms .....lb. .90 - 1.00
Celeryseed, bots. .....lb.20.00 - —
Chaulmoogra, NF, cns., dms. lb. .56 - —
Chinawood (see Oil, tung).
Cinnamon bark oil, bots.....lb.62.00 -65.00
leaf, dms. .....lb. 1.85 - —
Citronella, Ceylon, cns.....lb. 1.83 - 2.78
Java, cns. .....lb. 3.75 - 4.75
Clove, USP, cns..... ...lb. 1.40 - 1.60
Coconut, Ceylon type, tankcars, Atlantic ports..lb. .14 - .15
tankcars, Pac. Coast.....lb. .13 - .14
refined, Cochin type.....lb. .18 Nom.
deodorized, ret. dms., c.l. lb. .25 Nom.
Cod, Newfoundland, dms....gal. No prices
tanks .....gal. No prices
Codliver, USP, bbls., dms..gal. 2.60 - 3.70
Coriander, bots. .....lb.19.50 -22.00
Corn, crude, tanks, works....lb. .19½- —
refined, tanks, works.....lb. .23½- .24
foots, acid, 95%, tanks, dlvd. E..lb. .14 Nom.
raw, 50%, tanks, dlvd. E..lb. .07 Nom.

Cottonseed, crude, tanks, works. lb. .23 - —
deodorized, winterized, salad, dms., c.l..lb. .27 Nom.
l.c.l. .....lb. .28 Nom.
tankcars .....lb. .26 Nom.
foots, acid 95%, tanks, dlvd. E..lb. .14 Nom.
raw, 50%, tanks, dlvd. E. lb. .07 Nom.
Creosote (see C).
Croton, NF, cns.....lb. 4.75 - 5.50
Cubeb, cns. .....lb.10.00 - —
Crude (see Petroleum, crude).
Cumin, bots. .....lb. 6.25 -11.50
Cypress, bots. .....lb.15.00 Nom.
Degras (see D).
Dillseed, bots. .....lb. 6.50 - 7.00
Dillweed, bots.....lb. 4.37 - 5.25
Dip (see D).
Erigeron, cns.....lb. 2.30 Nom.
Eucalyptus, USP, rect., 80-90%, cns..lb. 1.05 - 1.25
70-80%, cns. .....lb. .95 - 1.13
Fennel, sweet, cns.....lb. 4.55 - —
Fir, Canada, cns. .....lb. 2.75 - —
Fishliver, 8,000-15,000 A units per gram, dms., per million units. .23 - .25
15,000-30,000 units, dms., per million units. .25 - .27
30,000-60,000 units, dms., per million units. .26½- .28
60,000-100,000 units, dms., per million units. .28 - .30
over 100,000 units, dms., per million units. .30 - .32
concentrates, 200,000 or more A units per gram, dms., per million units. .40 - .45

Oil, fuel (see Petroleum, fuel oil).
Garlic, pure, bots.....oz.15.00 - —
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns....lb.19.00 -21.00
Bourbon, cns. .....lb.13.50 -16.00
Russian, cns. .....lb. No stocks.
Turkish (see Oil, palmarosa).
Ginger, dist., bots.....lb. 9.50 -11.25
Grapefruit, Florida, cns....lb. 2.30 - —
California, bots., cns.....lb. 1.78 - 2.60
Grease, common, No. 1, dms., Chicago..lb. .25 Nom.
prime, burning, dms., Chicago. lb. .26½ Nom.
Guaiacwood, cns. .....lb. 2.90 - 3.80
Hemlock, cns. .....lb. 2.65 - —
Herring, crude, tanks, Pac. coast..lb. No prices.
Juniper berry, dom., bots....lb. No stocks.
imported, NF .....lb. No stocks.
Juniper tar, USP (see Juniper Tar).
Juniper wood, tech., cns....lb. .83 - 1.00
Lard oil (see Oil, grease).
Laurel, bots. .....lb.20.00 Nom.
Lavandin, cns. .....lb. 2.95 - 3.75
Lavender flower, French, 38-42% ster..lb. 9.00 -10.50
30-32% ester.....lb. 6.05 - 8.00
Russian, cns. .....lb. No stocks.
Spike, Spanish, pure, cns..lb. 1.75 - 2.40
tech., cns. .....lb. 1.05 - 2.50
Lemon, USP, Calif., cns.....lb. 3.40 - 3.50
Messina, cns. .....lb. 3.40 - 4.35
Terpeneless, bots. .....lb.50.00 - —
Lemongrass, cns., dms.....lb. 1.85 - 2.60
Lignaloe seed, Mexican, cns..lb. No stocks
Wood, Mexican, cns.....lb. 3.50 - 4.60
Brazilian (see Bois de Rose).
Lime, distilled, Mexican, cns.lb. 5.50 - —
West Indian, cns.....lb. 5.35 - 6.30
expressed, West Indian, cns.lb.12.50 -13.50
Linseed, raw, dms., c.l.....lb. .36 - —
l.c.l. .....lb. .3660- .37
tankcars .....lb. .35 Nom.
tankwagon .....lb. .3520 Nom.
Boiled linseed oil, .007 higher than raw.



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More than 80% of all the lemon oil used in the United States is Exchange Lemon Oil. This overwhelming endorsement by the trade is your assurance that Exchange Lemon Oil delivers *flavor . . . clarity* and *uniformity* not found in any other Lemon Oil.

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Producing Plant:
EXCHANGE LEMON PRODUCTS CO. CORONA, CALIF.

Oil, linseed replacement, dms., c.l..lb. .3320- —
l.c.l. .....lb. .3360- .34
tankcars .....lb. .3220- —
Lubricating, at refinery, ex tax, California, neutral, pale, 200-800 vis., 2¼-4 pour, tanks..gal. .07¼- .11
red, 200-900 vis., 4-6½ pour, plus tanks..gal. .07¼- .11¼
Group 3, bright stock, 150-160 vis., 0.25 pour, tanks, gal. .23 - .25
neutral, 300 vis., No. 3, col., 0.10 pour, tanks.. gal. .18½- .19
200-300 vis., No. 3, col., 15-25 pour, tanks.gal. .16 - .18
145-155 vis., No. 3, color, 10-25 pour, tanks..gal. .26 - .31
cylinder, oils, 600-680 flash, tanks..gal. .17 - .19
600-650 steam, refd., tanks..gal. .15½- .20
neutral, 70° F., No. 3 color, 150 vis., 25 pour, tanks..gal. .26 - .36
200 vis., 25 pour, tanks, gal. .28 - .38
Mace, dist., cns., dms.....lb. 7.75 - 8.50
Mineral, white (see Oil, white).
Mandarin, Brazilian, cns.....lb. 8.00 - —
Italian, cns.....lb.10.00 - —
Menhaden, crude, tanks, Balto, lb. No prices
refined, alkali, dms., l.c.l..lb. .26½- —
kettle-bodied, dms., l.c.l..lb. .28 - —
light-pressed, dms., l.c.l..lb. .25 - —
tanks .....lb. .24 - —
Mustard, artif., USP, cns....lb. 1.45 - 1.65
Seed, exp., dms., c.l.....lb. .30 - —
Neatsfoot, 15°, ret. dms., works, lb. No prices
20°, ret. dms., works.....lb. No prices
30°, ret. dms., works.....lb. No prices

Oil, neroli, French, bots.....lb.160.00 -380.00
Haitian, bots.....lb.180.00 -200.00
Nutmeg, cns.....lb. 7.50 - 8.75
Ocotea cymbarum, dms.....lb. .90 - 1.00
Oiticica, liquid, tankcars....lb. .27 Nom.
dms., carlots .....lb. .25 Nom.
l.c.l. .....lb. .26 Nom.
Oleo, extra, tcs., Chicago....lb. .19 Nom.
Olibanum, bots.....lb. 5.00 - 6.05
extra, fine.....lb. 6.25 -10.50
Olive, denat., dms.....gal. No stocks
edible, Calif., dms.....gal. 6.25 - —
imported, dms. .....gal. 6.75 - 6.85
foots, dms., c.l.....lb. No prices
tankcars .....lb. No prices
sulphonated, 50% (40% fat), dms., c.l..lb. No stocks
l.c.l. .....lb. No stocks
80% (68% fat), dms., c.l.. lb. No stocks
l.c.l. .....lb. No stocks
85% (68% fat), dms., c.l.lb. No stocks
l.c.l. .....lb. No stocks
Orange, sweet, dist., cs.....lb. 1.25 - 1.75
expressed, USP, Brazilian, cns..lb. 1.60 - 2.00
Calif., cns. .....lb. 1.60 - 2.10
Florida, cns., dms.....lb. 1.45 - 1.85
Messina, coppers.....lb. 4.50 - 4.75
West Indian, cns.....lb. 2.35 - 3.75
sesquiterpeneless, bots.....lb.100.00 -135.00
Origanum, Spanish, cs.....lb. 3.25 - 3.50
Palm, Niger, dms.....lb. No prices
Palmarosa, cns. .....lb. 7.75 - 9.00
Palmkernel, crude, bulk, c.i.f., N. Y..lb. No prices
Paraffin, 300° flash, 100-110 vis., tanks, G.3..gal. .05¾- —
320° flash, 60-70 vis., tanks, G.3..gal. .05¼- —
350° flash, 70-80 @ 100 vis., 0/10 pour, G.3..gal. .08 - —

Oil, paraffin, 300° flash, 80-85 vis., 0/10 pour, bbls., extra, Ind. ref'y..gal. .12 - —
100-110 vis., 0/10 pour, same basis..gal. .08½- —
10/25 pour, same basis.gal. .08¾- —
Patchouli, imported, cns....lb.22.00 -40.00
Peanut, crude, tanks, works..lb. .25 Nom.
foots, acid, 95%, tanks, dlvd. E..lb. .14 Nom.
raw, 50%, tanks, dlvd. E.lb. .07 Nom.
refined, tanks, mills.....lb. .28 Nom.
Pennyroyal, dom., dms., cns.lb. 3.85 - 3.95
import, cns. .....lb. 4.05 - 5.00
Peppermint, natural, dms...lb. 8.00 - 8.70
redist., USP, dms.....lb. 8.40 - 9.60
Perilla, crude, dms.....lb. No stocks
Petitgrain, Paraguay, cns...lb. 3.10 - 4.30
Pimento, berry, dms.....lb. 4.25 - 6.50
Leaf, cns. .....lb. 2.35 - 3.25
Pine, destructive dist., dms., c.l., extra, wks., South. gal. .67 - —
l.c.l., same basis.....gal. .68 - —
tanks, wks., South.....gal. .61 - —
steam-dist., dms., dlvd. E.gal. .88 - —
Pineneedle, cns. .....lb.3.55 - 3.70
Putty, petroleum, heavy, dms. gal. .18 - —
tankwagon .....gal. .13½- —
light, dms. .....gal. .16½- —
tankwagon .....gal. .12½- —
Rapeseed, dms., c.l.....lb. No prices
Red, single dist., ret. dms..lb. .21¾- .22¾
tankcars .....lb. .20½- —
double dist., ret. dms.....lb. .24¼- .25¼
tankcars .....lb. .23 - —
Rose, natural, coppers.....oz.36.00 -42.00
Rosemary, Spanish, tech., cns., dms..lb. 1.00 - 1.50
USP, cns., dms.....lb. 1.40 - 1.60
Rosin, 1st rectified, dms....gal. .66 - —
2d rectified, dms.....gal. .68 - —
3d rectified, dms.....gal. .73 - —

Oil, rue, bots.....lb. 4.90 - 5.50
Sage, Dalmatian, cns.....lb. 5.25 - 6.50
Spanish, cns. .....lb. 2.80 - 3.00
Sandalwood, NF, Mysore, cns., case lots..lb.14.00 -22.50
Sardine, crude, tanks, Pac. coast..lb. No prices
refined, alkali, dms., l.c.l..lb. .26½- —
kettle-bodied, dms., l.c.l..lb. .28 - —
light-pressed, dms., l.c.l..lb. .25 - —
tanks .....lb. .24 - —
Sassafras, artificial.....lb. .85 - 1.10
natural, Brazilian (see Oil, ocotea cymbarum).
domestic, USP XII, cns., dms..lb. 1.95 - 2.30
Savin, cns. .....lb. 6.60 - 9.00
Savory, cns. .....lb. 8.00 - —
Seal, No. 1, tanks, U.S. ports, lb. No prices
Sesame, tanks.....lb. No prices
Shingle stain, bbls., c.l., works, gal. .2185- —
l.c.l., works.....gal. .25 - .29
tanks, works.....gal. .15 - .16
Snakeroot, Canada, cns.....lb.22.00 - —
Soybean, crude, tankcars, mills, lb. .19 - .20
refined, alkali, dms., c.l....lb. .2683- —
l.c.l. .....lb. .2720- —
tankcars .....lb. .2583- —
clarified, dms., c.l.....lb. .2513- —
l.c.l. .....lb. .2550- —
tankcars .....lb. .2413- —
winterized, ref., tankcars..lb. .24 Nom.
foots, acid, 95%, tanks, dlvd. E..lb. .14 Nom.
raw, 50%, tanks, dlvd. E.lb. .07 Nom.
Spearmint, dms. .....lb.13.25 -14.75
Sperm, bleached, 38°, dms...lb. No prices
natural, 45°, dms.....lb. No prices
Spruce, cns., dms.....lb. 2.40 - 2.65
Sunflower, imported, refined, tanks..lb. No prices.
semi-refined, tanks .....lb. No prices.
Sweet birch, North, cns.....lb. 5.85 - 8.00
South, cns. .....lb. 2.60 - 3.25
Tall, crude, tankcars, works, ton.90.00 Nom.
refined, dms., c.l., works..lb. .07¾- —
l.c.l., works .....lb. .08¼- —
tanks, works .....lb. .06¾- —
Tallow, acidless, dms., Chicago, lb. .24 Nom.
Tansy, cns.....lb.14.00 - —
Tar, pine, crude, dms., extra, c.l., works, South..gal. .36½- —
l.c.l., works, South....gal. .38½- —
tanks, works, South....gal. .30½- —
rectified, USP, l.c.l., dms. extra, wks., South..gal. .57 - —
Tar acid (see T).
Thyme, red, NF, cns.....lb. 2.50 - 3.25
white, cns. .....lb. 2.95 - 3.60
technical, cns. .....lb. .93 - —
Tung, dms., c.l.....lb. .27 - —
l.c.l. .....lb. .28 - .28½
tankcars .....lb. .25 - —
Turkey red (see Oil, castor, sulphonated).
Turpentine, rectified, USP, cns., dms..lb. .30 - .39
Vetiver, Bourbon, cns.....lb.30.00 -38.00
Haitian .....lb.31.00 -33.00
Whale, ref., natural, dms...lb. No stocks.
Winter bleached, dms.....lb. No stocks.
Wheat germ, dms.....gal.10.00 -15.50
White, mineral, tech., f.o.b., N. Y., 50-60 vis., dms., incl., c.l..gal. .42 - —
l.c.l. .....gal. .44 - .48
65-75 vis., dms., dms. incl., c.l..gal. .45 - —
l.c.l. .....gal. .47 - .52
USP, 80/90 vis., dms., dms. incl., c.l..gal. .40 - —
l.c.l. .....gal. .51 - .56
125/135 vis., dms., dms. incl., c.l..gal. .61 - —
l.c.l. .....gal. .64 - .69
145/155 vis., dms., dms. incl., c.l..gal. .63 - —
l.c.l. .....gal. .66 - .70
175/185 vis., dms., dms. incl. c.l..gal. .66 - —
l.c.l. .....gal. .68 - .73
200/210 vis., dms., dms. incl., c.l..gal. .70 - —
l.c.l. .....gal. .73 - .77
335/345 vis., dms., incl., c.l. gal. .78 - —
l.c.l. .....gal. .80 - .85
55, 70 and 85 vis., non-ret. dms., San Francisco.gal. .45 - —
smaller lots, same basis, gal. .47 - .50
100 vis., non-ret. dms., 65 dms., San Francisco, gal. .56½- —
smaller lots, same basis, gal. .57½- .61½
145 vis., non-ret. dms., 65 dms., San Francisco.gal. .64 - —
smaller lots, same basis, gal. .66 - .68
180 vis., non-ret. dms., 65 dms., San Francisco.gal. .69½- —
smaller lots, same basis, gal. .71½- .74½
240 vis., non-ret. dms., 65 dms., San Francisco.gal. .81 - —
smaller lots, same basis, gal. .83 - .86
Wintergreen, natural, North, cns..lb. 7.00 -17.25
South, cns. .....lb. 3.65 - 6.00
Synthetic (see Methyl salicylate).
Wood (see Oil, tung).
Wormseed, NF, cns.....lb. 4.90 - 5.50
Wormwood, cns. .....lb.11.25 -11.50
Ylang-ylang, Bourbon, extra, bots..lb.15.50 -25.00
first, bots.....lb.12.50 -14.50
second, bots.....lb. 8.00 - 9.50
third, bots.....lb. 5.00 - 7.50
Oleostearin, loose .....lb. .17 Nom.
Olivine, aggregate, c.l., mines.. ton. 7.00 - 9.50
crushed, 8 mesh, bulk, c.l., works..ton.10.00 - —
paper bgs., c.l., works..ton.12.00 - —
lumps, paper bgs., c.l., works, ton. 7.00 - —
Opium, USP, cns.....lb.21.30 -21.55
gran. .....lb.22.70 -29.95
powd. .....lb.22.70 -29.95
Orange, cadmium lithopone, bbls., frt. alld. E. of Rockies, lb. 1.00 - —
Chrome, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., includ. Davenport, Tenn. and N. C., E. of Minneapolis, Rock Island, St. Louis, St. Paul, contracts..lb. .24 - —
Chrome orange prices are ½c. higher, dlvd. Ala., Fla., Ga., La. (Shreveport); 1¼c. Miss., N. C., S. C., Tenn., Dallas, Tex., Ft. Worth, Tex., 1½c.; El Paso, Tex.; 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.
Dinitroaniline toner.....lb. 1.15 - —
Molybdate, bbls.....lb. .38 - —
Orthonitroaniline toner, bbls., kgs., works..lb. 1.05 - 1.15
Persian, bbls. .....lb. .30 - .45
Orange mineral, American, bbls., 5 tons, f.o.b. ship't point, frt. alld..lb. .20½- —
smaller lots, bbls., f.o.b. ship't point, frt. alld..lb. .21 - —
Orange flowers, bls.....lb. .46 - .48

FROM SHELL CHEMICAL another useful intermediate

ALLYL CHLORIDE

$CH_2=C(H)-CH_2Cl$

...REACTS READILY THROUGH BOTH ITS Cl ATOM AND DOUBLE BOND

SPECIFICATIONS

Purity	Minimum 97% allyl chloride by wt.
Spec. Grav. 20/20°C	.937 to .940
Distill. Range	Below 43°C: None Above 49°C: None
Acidity	Max. 0.01% (as HCl)
Color	Colorless to straw

AVAILABLE IN COMMERCIAL QUANTITIES

The reactions of this important compound are characterized by rapidity and freedom from by-products. *Replacement* of the chlorine atom leads to a variety of compounds having widely different structures. The *double bond* can be reacted with a variety of reagents to give products useful for the further synthesis of a large number of chemicals, pharmaceuticals and anaesthetics.

TYPICAL REACTIONS

The following are examples of replacement and double bond reactions:

$CH_2=CH-CH_2Cl + Br_2 \longrightarrow CH_2Br-CHBr-CH_2Cl$
(1-chloro-2,3-dibromopropane)

$CH_2=CH-CH_2Cl + CuCN \longrightarrow CH_2=CH-CH_2CN + CuCl$
(allyl cyanide)

$CH_2=CH-CH_2Cl + NaOR \longrightarrow CH_2=CH-CH_2OR + NaCl$
(alkyl allyl ether)

PHYSICAL PROPERTIES

Specific Gravity at 20/4°C	0.9374
Boiling Point at 760 mm	44.9°C
Flash Point Open Cup	-20°F
Azeotropic Data	Forms a constant boiling mixture with water at 43.0°C, containing 97.8% by weight of compound
Refractive Index, N_D^{20}	1.4151

Other Shell Chemical products include: Allyl Alcohol, Cyclohexane, Diisobutylene, Acetone and Methyl Ethyl Ketone.

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Orange peel, bitter, Haitian, bls.	lb.	.13	- .14
Sweet, bls.	lb.	.14	- .16
Oregano, Italian, bgs.	lb.	.27	- .27½
Mexican, bgs.	lb.	.16	- .16½
Portuguese, bgs.	lb.	.24½	- .25½
Orris root, Florentine, bls.	lb.	.34	- .35
Verona, bls.	lb.	.22	- .23
Orthoamylphenol, dms., works.	lb.	.27	- —
Orthoanisidin, bbls.	lb.	.70	- —
Orthochloroanilin, dms.	lb.	.60	- —
Orthochlorophenol, dms.	lb.	.25	- .31
Orthocresol, 30.4° C., min., M.P., dms., c.l., works.	lb.	.24	- .24½
l.c.l., works.	lb.	.24½	- .25
20° C., mn., M.P., dms., c.l., works.	lb.	.23	- —
l.c.l., works.	lb.	.23½	- —
Orthodichlorobenzene, dms., c.l., works, frt. alld. E. of Rockies.	lb.	.07½	- .08
l.c.l., same basis.	lb.	.09½	- .10½
tanks, same basis.	lb.	.07	- —
Orthodichlorobenzene prices W. of Rockies 1c. per lb. higher.			
Orthonitroanilin, dms.	lb.	.43	- .55
Orthonitrochlorobenzene, dms.	lb.	.15	- .18
Orthonitrodiphenyl, tech., grade A., dms., c.l., works.	lb.	.10	- —
l.c.l., works.	lb.	.11	- —
grade B, dms., c.l., works.	lb.	.06	- —
l.c.l., works.	lb.	.07	- —
Orthonitroparachlorophenol, cns..	lb.	.75	- —
Orthonitrotoluene, dms.	lb.	.08	- .09
Orthophenetidin, dms.	lb.	.90	- —
Orthotoluidin, dms.	lb.	.18	- .21
Osage orange crystals, bbls.	lb.	.32	- —
extract, No. 1, bbls.	lb.	.15	- —
Ouabaine, USP, bots.	gram.	3.00	- 4.00
Oxyquinolin sulphate, cns., 100 lbs., works.	lb.	6.40	- —
small lots, works.	lb.	6.55	- 7.40

P

Papain, powd, cs.	lb.	5.75	- 6.00
Papaverine, natural or synthetic, hydrochloride, NF, cns., 1,000-oz. lots.	oz.	7.00	- —
smaller lots.	oz.	7.25	- 7.60
Sulphate, cns.	oz.	7.10	- 7.35
Paprika, Chilean, bgs.	lb.	.33	- .34
Portuguese, bgs.	lb.	.40	- .41
Spanish, bgs.	lb.	.45	- .47
Para-anisidin dms., works.	lb.	.75	- —
Parachlorophenol, dms., c.l., works.	lb.	.25	- —
l.c.l., same basis.	lb.	.27½	- .29
Paracresol, bots., works.	lb.	.41	- .50
Paracymene, dms., c.l., works.	lb.	.1595	- —
l.c.l., same basis.	lb.	.1645	- —
tanks, same basis.	lb.	.1545	- —
Paradichlorobenzene, dms., c.l., works.	lb.	.12½	- —
l.c.l., same basis.	lb.	.14	- —
Paraffin, crude, scale, white or yellow, 124-126 ASTM, bbls., c.l., refinery.	lb.	.06	- .06¼
fully ref'd slabs, loose, 117-119 ASTM, c.l., refinery.	lb.	.05	- —
122-125 ASTM refinery.	lb.	.0610	- .0645
125-127 ASTM, refinery.	lb.	.0610	- .0655
128-130 ASTM, refinery.	lb.	.0640	- .0675
130-132 ASTM refinery.	lb.	.0665	- —
133-135 ASTM, refinery.	lb.	.0695	- .0710
135-137 ASTM, refinery.	lb.	.0720	- —
Prices in bags 4/16c. lb. higher.			
Paraformaldehyde, dms., 1,000 lbs. or more, works.	lb.	.21	- —
smaller lots, works.	lb.	.22	- —
Paraldehyde, tech., 98%, 55 and 110-gal. dms., l.c.l., wks.	lb.	.13	- —
10-gal. dms., works.	lb.	.16	- —
USP, cbys.	lb.	.49	- .62
Paranitroanilin, kgs., works.	lb.	.41	- .43
Paranitrochlorobenzene, kgs., wks.	lb.	.15	- —
Paranitrophenol, kgs.	lb.	.35	- —
Paranitrotoluene, kgs., works.	lb.	.30	- —
Paraphenylenediamine, tech., kgs.	lb.	1.25	- —
Paratoluenesulphonamide, bbls.	lb.	.70	- —
Paratoluidin, bbls., works.	lb.	.44	- .53
Paris green, dealer, distributor, dms., kgs., c.l., works, frt. alld. East.	lb.	.31	- —
l.c.l., same basis.	lb.	.32	- .33
Passion flower herb, bls.	lb.	.35	- .40
Patchouli leaves, bls.	lb.	.38	- .40
Pectin, bbls.	lb.	1.25	- —
Penicillin, amorph., calcium, bulk, 1,000,000,000 units..			
100,000 units.		.19	- —
sodium, bots. 100,000 units.		.25	- —
cryst., sodium, bots. 100,000 units.		.27	- —
bulk, 1,000,000,000 units.			
100,000 units.		.21	- —
Pennyroyal leaves, bls.	lb.	.24	- .25
Pentachlorophenol, dms., works.	lb.	.20	- .25
Pentaerythritol, tech., bbls., c.l., works.	lb.	.32	- —
l.c.l., works.	lb.	.34	- .36
Pentane, 28°-38° C., industrial grade, dms., c.l., Group 3,	gal.	.11	- .14
l.c.l., dms., Group 3,	gal.	.17	- .30
tanks, Group 3.	gal.	.07½	- .08
28°-38° C., laboratory grade, 10-gal. cns., dlvd. E.	gal.	.55	- —
dms., c.l., Group 3.	gal.	.16	- —
l.c.l., Group 3.	gal.	.29	- —
Pepper, black, bgs.	lb.	.30	- .31
futures, bgs.	lb.	.31	- .31½
Red, capsicum, Louisiana, longs, bgs., shipment point.	lb.	.20	- .21
sports, bgs.	lb.	No stocks	
Mombassa, bgs.	lb.	.39	- .40
Niger, bgs.	lb.	.24	- .25
Sierra Leone, futures.	lb.	.27	- .28
Chillies, Haitian, bgs.	lb.	.56	- .57
Mexican, long.	lb.	.50	- .51
White, bgs.	lb.	.51	- .51½
Peppermint, dom., USP, bls.	lb.	.90	- .95
imported, USP, bls.	lb.	.96	- 1.00
Perchloroethylene, dms., c.l., Zone 1, works, frt. alld.	lb.	.10¼	- —
Zone 2, same basis.	lb.	.10¾	- —
Zone 3, same basis.	lb.	.11¼	- —
Zone 4, same basis.	lb.	.11¾	- —
l.c.l., Zone 1, same basis.	lb.	.10¾	- —
Zone 2, same basis.	lb.	.11¼	- —
Zone 3, same basis.	lb.	.11¾	- —
Zone 4, same basis.	lb.	.11¾	- —
tanks, Zone 1, works, same basis.	lb.	.09¾	- —
Zone 2, same basis.	lb.	.10¼	- —
Zone 3, same basis.	lb.	.10¾	- —
Zone 4, same basis.	lb.	.10¾	- —

Perchlorethylene zones are:—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb. (Omaha), Kans. (Kansas City), N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis.; (2) Ala., Ark., Fla., Ga., Kansas, La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont. (E) N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.

Peru balsam, dms.	lb.	1.05	- 1.10
Petrolatum, tech., dark, bbls., c.l., Group 3.	lb.	.021	- —
Pennsylvania refy.	lb.	.045	- —
golden topaz, bbls., c.l.	lb.	.032	- —
l.c.l.	lb.	.036	- —
red, veterinarian, bbls., c.l.	lb.	.024	- —
l.c.l.	lb.	.028	- —
USP, amber, non-ret. dms., c.l.	lb.	.05	- —
Pennsylvania refy.	lb.	.04875	- —
l.c.l.	lb.	.06	- —
California	lb.	.06	- —
extra, amber, dms., c.l.	lb.	.05½	- —
l.c.l.	lb.	.06¼	- —
cream, c.l., dms.	lb.	.07	- —
l.c.l.	lb.	.08¼	- —
white, lily, dms., c.l.	lb.	.07¼	- —
l.c.l.	lb.	.08¾	- —
snow, dms., c.l.	lb.	.08¼	- —
Pennsylvania refy.	lb.	.08125	- —
l.c.l.	lb.	.09¾	- —
California	lb.	.1175	- —
soft, dms., c.l.	lb.	.07¼	- —
Pennsylvania refy.	lb.	.07125	- —
l.c.l.	lb.	.08¼	- —
California	lb.	.1075	- —
yellow, soft, dms., c.l.	lb.	.05½	- —
Pennsylvania refy.	lb.	.04875	- —
l.c.l.	lb.	.06½	- —
California	lb.	.08	- —
Petroleum, crude, bulk, at wells, California, heavy grades..	bbl.	1.88	- 2.14
Illinois	bbl.	1.95	- 2.07
Kentucky, Union County.	bbl.	1.97	- 2.02
Louisiana-Arkansas	bbl.	1.63	- 2.09
Montana	bbl.	1.55	- 1.95
Oklahoma-Kansas	bbl.	1.53	- 1.95
Pennsylvania, lower field.	bbl.	3.87	- 4.05
Upper field	bbl.	1.96	- 3.40
Texas, East.	bbl.	1.65	- 1.95
Gulf coast	bbl.	1.76	- 2.06
North, North-Central.	bbl.	1.53	- 1.95
Panhandle	bbl.	1.53	- 1.95
West	bbl.	1.40	- 1.82
Wyoming	bbl.	1.55	- 1.95
Ether, laboratory grade, 30°-60° C, 10-gal. cns., dlvd. E.	gal.	.55	- —
dms., c.l., Group 3.	gal.	.16	- —
l.c.l., same basis.	gal.	.29	- —
35°-60° C, 10-gal. cns., dlvd. E.	gal.	.55	- —
dms., c.l., Group 3.	gal.	.16	- —
l.c.l., same basis.	gal.	.29	- —
40°-75° C, 10-gal. cns., dlvd. E.	gal.	.55	- —
dms., c.l., Group 3.	gal.	.16	- —
l.c.l., same basis.	gal.	.29	- —
Fuel oil, furnace, tanks, at refinery, Arkansas, No. 2.	gal.	.06125	- —
No. 3	gal.	.06	- —
Bayonne, No. 2, tanks..	gal.	.0640	- —
California, heavy	bbl.	1.50	- 1.55
light	bbl.	1.70	- 1.75
diesel	gal.	.0745	- .0795
Group 3, No. 1.	gal.	.06375	- .06625
No. 2, straw.	gal.	.06125	- .06375
No. 3	gal.	.06	- .06125
Oklahoma, No. 1, p.w.	gal.	.06125	- .07
No. 1, straw.	gal.	.06625	- —
No. 2, straw.	gal.	.06125	- .065
No. 3	gal.	.06125	- —
No. 6.	bbl.	1.64	- 2.50
range	gal.	.065	- .0675
Pennsylvania, No. 1.	lb.	.0775	- —
No. 2	gal.	.07625	- .077
No. 3	gal.	.077	- —
36-40 gravity.	gal.	.075	- —
Bunker C (No. 6), tanks, Albany, N. Y.	bbl.	2.42	- —
Baltimore, Md.	bbl.	2.22	- —
Boston, Mass.	bbl.	2.36½	- —
Charleston, S. C.	bbl.	2.13	- —
Jacksonville, Fla.	bbl.	2.08	- —
New York, N. Y.	bbl.	2.22	- —
Norfolk, Va.	bbl.	2.18	- —
Philadelphia, Pa.	bbl.	2.22	- 2.27
Portland, Me.	bbl.	2.26½	- —
Providence, R. I.	bbl.	2.23½	- —
Savannah, Ga.	bbl.	2.13	- —
Lacquer, diluent, California, 100 l.b.n., 200 c.p., tanks, dlvd. Los Angeles.	gal.	.118	- —
Seattle, Wash.	gal.	.128	- —
East Coast, N. J., N. Y., tanks, refinery.	gal.	.13	- —
Group 3, benzol type, tanks,	gal.	.09¾	- —
toluol type, tanks.	gal.	.09¾	- —
San Francisco	gal.	.11¼	- —
Portland, Ore.	gal.	.128	- —
Mineral spirits, California, San Francisco, 170-250 b.r., tanks.	gal.	.123	- —
205-290 b.r., tanks.	gal.	.123	- —
244-362 b.r., tanks.	gal.	.123	- —
307-360 b.r., tanks.	gal.	.113	- —
312-402 b.r., tanks.	gal.	.113	- —
362-458 b.r., tanks.	gal.	.113	- —
East Coast, N. J., N. Y., tanks, refinery.	gal.	.12½	- —
Group 3, tanks, refinery.	gal.	.07¾	- .08½
Gulf coast, tanks.	gal.	.07¾	- —
tankwagon, Baltimore.	gal.	.15	- —
Boston	gal.	.13½	- —
Buffalo	gal.	.14	- —
Camden, N. J.	gal.	.12½	- —
Chicago	gal.	.159	- —
Detroit	gal.	.182	- —
Kansas City, Mo.	gal.	.15½	- —
Lancaster, Pa.	gal.	.13½	- —
Newark	gal.	.12¾	- —
New York.	gal.	.12½	- —
Philadelphia	gal.	.12½	- —
Pittsburgh	gal.	.14	- —
Providence	gal.	.14	- —
Rochester	gal.	.15	- —
St. Louis.	gal.	.161	- —
Syracuse	gal.	.16	- —
Washington, D. C.	gal.	.15	- —
Naphtha, cleaners, California, tanks, San Francisco.	gal.	.123	- —
East coast, N. J., N. Y., tanks, refinery.	gal.	.11	- —
Group 3, tanks, refinery.	gal.	.08¾	- .09½
tankwagon, Newark.	gal.	.06¼	- —
Chicago	gal.	.14¼	- —
Detroit	gal.	.15½	- —
New York.	gal.	.12	- —
Philadelphia	gal.	.125	- —
St. Louis.	gal	.1470	- —

IT'S TRUE...

OF EVERY PERSON... MAN, WOMAN, AND CHILD... LIVING IN PARIS, MOSCOW AND BERLIN MADE A TELEPHONE CALL ON THE SAME DAY, THE TOTAL WOULD STILL NOT EQUAL THE NUMBER OF CALLS MADE DURING A SINGLE BUSINESS DAY IN NEW YORK CITY.

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ESSO'S LABORATORY TECHNICIANS ARE CONSTANTLY SEEKING TO BETTER THE EXACTING HIGH STANDARDS OF THE INDUSTRIAL SOLVENTS FIELD. AMERICA'S LARGEST PETROLEUM RESEARCH LABORATORIES ARE THEIR WORKSHOPS... 11 DIFFERENT GRADES OF ESSO PETROLEUM SOLVENTS ARE THEIR PRODUCTS.

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- *Essential Oils*
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- *Oximes*
- *Nitro Compounds*
- *Sugar Alcohols*
- *Fatty Acids*
- *Ketones*
- *Aldehydes*

Petroleum naphtha, high flash, 140° F, Group 3 refinery, tanks..gal. .12 - .12½
high-solvency, No. A, tanks, Paulsboro, N. J..gal. .18 - —
No. B, tanks, same basis. gal. .19½- —
No. D-F, tanks, same basis. gal. .20 - —
No. A-80, tanks, Carteret, N. J..gal. .20 - —
No. B-90, tanks, Carteret, N. J..gal. .21½- —
No. F-80, tanks, Carteret, N. J..gal. .24 - —
V.M.&P., at refinery, 46.5, 254 i.b.p., 380 e.p., tanks, El Segundo..gal. .12 - —
Richmond .....gal. .12½- —
Portland, Ore., Seattle, Wash..gal. .12 - —
California, 64-77, 190 i.b.p., 310 e.p., Los Angeles..gal. .11 - —
San Francisco.....gal. .11½- —
Portland, Seattle...gal. .12 - —
E. Coast, N. J., N. Y., tanks, refinery..gal. .12½- —
Group 3, tanks.....gal. .08½- .09½
Gulf Coast (dlvd, New Orleans), tanks..gal. .10 - —
tankwagon, Boston.....gal. .145 - —
Chicago .....gal. .162 - —
Detroit .....gal. .174 - —
Milwaukee .....gal. .178 - —
Minneapolis .....gal. .176 - —
Newark .....gal. .14 - —
New York.....gal. .135 - —
Philadelphia .....gal. .14 - —
Pittsburgh .....gal. .15 - —
St. Louis.....gal. .171 - —

Petroleum solvent, rubber, at refinery, California, San Francisco, tanks..gal. .11½- —
East Coast, N. J., N. Y., tanks..gal. .12½- —
Group 3, tanks.....gal. .08625-.09125
Stoddard (C.S. 8-38), at refinery:—
California (San Francisco). tanks..gal. .12 - —
East Coast, N. J., N. Y., tanks..gal. .11½- —
Group 3, tanks.....gal. .08½- .08⅝
Pennsylvania, western, tanks..gal. .09 - .09¼
tankwagons, Boston.....gal. .13 - —
Chicago .....gal. .14½- —
Detroit .....gal. .16¼- —
Milwaukee .....gal. .15½- —
Minneapolis .....gal. .1540- —
Newark .....gal. .13½- —
New York..gal. .12½- —
Philadelphia .....gal. .12¼- —
Pittsburgh .....gal. .13 - —
St. Louis .....gal. .14½- —
Syracuse .....gal. .15½- —
Sulphonates, 68% sulphonic content, ret. dms., c.l., wks. lb. .09¾- —
l.c.l., works .....lb. .09¾- .10¾
50% sulphonic content, ret. dms., c.l., works.lb. .09⅝- —
l.c.l., works .....lb. .09¾- .10¾
tanks, works .....lb. .09½- —
Phenobarbital, dms., 100 lbs...lb. 3.50 - 4.50
Phenol, 90-92% (cresol, 8-10%), dms., c.l., wks., frt. equald. lb. .11¾- .12¼
l.c.l., same basis.....lb. .12½- —
tanks, same basis.....lb. .10½- .11½
82-84% (cresol, 16-18%), dms., c.l., same basis..lb. .11½- .12
l.c.l., same basis.....lb. .12½- .12¾
tanks, same basis.....lb. .11 - —
USP, dms., c.l., same basis.lb. .11¼- .13
l.c.l., same basis....lb. .12 - .13¼
tanks, same basis.....lb. .10¼- .11¾

Phenolphthalein, USP, bbls., dms., 2,000 lbs..lb. .85 - —
smaller lots .....lb. .87 - .92
Yellow, fib. dms., 2,000 lbs..lb. .80 - —
smaller lots .....lb. .82 - .87
Phenothiazin, NF, fib. dms., ton lots or more, works..lb. .49 - —
smaller lots, works.....lb. .54 - —
Phenylacetaldehyde solution, 50%, bots..lb. 2.35 - 2.75
pure, bots. .....lb. 4.00 - 5.15
Phenylethyl acetate, dms.....lb. 2.40 - 3.65
Phenylethylphenyl acetate, bots. lb. 5.15 - 7.50
Phenylhydrazin base, CP, bots.lb. 4.55 - —
Hydrochloride, CP, bots., works. lb. 7.10 - —
commercial, kgs., works...lb. 1.75 - —
Phloroglucinol, CP, fib. dms..lb.13.75 -14.75
tech., fib. dms.....lb.12.00 -12.55
Phosgene, 150-lb. cyls., works..lb. .20½- .35
10-lb. cyls., works.....lb. 1.00 - —
Phosphate, defluorinated (see under D.).
Phosphate rock, Fla., land pebble, unground, run-of-mine, washed, dried, 68-66%, b.p.l., bulk, car at mine, c.l.... long ton. 2.94 - 3.00
70%-68%, same basis.. long ton. 3.34 - 3.49
72%-70%, b.p.l., same basis..long ton. 3.94 - 4.00
75%-74%, b.p.l., same basis..long ton. 4.94 - 5.09
77%-76%, b.p.l., same basis..long ton. 5.94 - 6.09
Prices for Florida phosphate are plus usual bonus penalty clause on oil and labor. Prices on entirely pebble 50c. per long ton higher than above quotations.
finely ground, 65.5% b.p.l., 30% P_2O_5 minimum.... short ton. 4.65 - —
68%, b.p.l., basis 31% P_2O_5 minimum..short ton. 4.85 - —
70%, b.p.l., basis 32% P_2O_5 minimum..short-ton. 5.20 - —

Phosphate rock, Tennessee, brown, unground, run-of-mine, 70-68% b.p.l., 5½% i. & a., same basis..long ton. 5.50 - —
72%-70%, b.p.l., 5½% i. & a., same basis..long ton. 6.00 - —
29% P_2O_5, same basis..... long ton. 5.15 - —
30% P_2O_5, same basis.... long ton. 5.35 - —
finely ground, 31% P_2O_5, same basis..short ton. 5.45 - —
32% P_2O_5, same basis.... short ton. 5.70 - —
33% P_2O_5, same basis.... short ton. 6.20 - —
Phosphorus, red amorphous, cs. lb. .33 - .35
tins, export .....lb. .55 - —
yellow, cns. .....lb. .25 - .27
dms., c.l. .....lb. .22 - —
Oxychloride, dms., c.l.....lb. .10¼- —
Pentoxide, dms., c.l., works.. lb. .12 - —
l.c.l., works .....lb. .13 - .14
Sesquisulphide, tins, cs.....lb. .26 - .27
Trichloride, dms. c.l.....lb. .10¼- —
l.c.l. .....lb. .12½- .15
Phthalamide, bbls., works....lb. .35 - .40
kgs., works.....lb. .45 - .50
Phthalic anhydride, bgs., bbls., c.l., works, frt. alld. E. of Denver..lb. .14½- —
l.c.l., same basis.....lb. .15½- —
Pichi leaves, bgs.....lb. .07 - .08
Picoline (see Alphapicoline and Betapicoline).
Picrotoxin, bots .....oz. 8.00 - —
Pilocarpine hydrochloride, USP, bots., vials..oz. 6.50 - 7.50
Nitrate, bots., vials.....oz. 6.25 - 7.25
Pimento, Jamaica, bgs.....lb. .23½- .24
Pinetar, retort, dms., extra, c.l., works, South..gal. .36½- —
l.c.l., works, dms., extra.. gal. .38½- —
l.c.l., whse., N.Y.C., dms., extra..gal. .47¾- —
tanks, works South.....gal. .30½- —
Pinkroot, bls. .....lb. 1.10 - 1.15
Piperazine hexahydrate, bots..lb.13.00 -13.50
Pitch, burgundy (see B).
Coaltar, 150° m.p., bbls., c.l., works..ton.24.25 - —
l.c.l., works.....ton.27.25 - —
Cottonseed, dms., works....lb. .10½- .10¾
Hardwood, paper bgs., works.. lb. .04 - —
Linseed, dms.....lb. No prices
Petroleum (see Asphaltum, Mexican, Texas).
Pine, dms.....100 lbs. 7.85 - —
stands, 200 lbs.....stand.15.70 - —
Soybean, dms., works.....lb. .10¼- .10½
Plaster of paris (see Gypsum).
Podophyllin, dms. .....lb.13.50 -13.75
Pokeroot, bls. .....lb. .16 - .17
Polystyrene, plain colors, dms., 30,000 lbs., works, frt. alld. lb. .31½- —
20,000 lbs., frt. alld.....lb. .32½- —
smaller lots, frt. alld....lb. .33½- .35¼
Water-clear, polystyrene, 7c. per lb. less than plain colors.
Pomegranate, root, bark, bgs..lb. .75 - .76
Poppy flowers, bls.....lb. .60 - .70
Seed, Argentine, bgs.....lb. .19½- .20
Danish, bgs. .....lb. .21 - .21½
Dutch .....lb. .23¼- .23½
Turkish, bgs.....lb. .21 Nom.
Potash abietate .....lb. .08 - —
Acetate, USP, dms.....lb. .32 - .34
Bicarbonate, USP, gran., dms. lb. .20 - .22
powd., dms. .....lb. .22 - .24
Bichromate, bgs., c.l., works.. lb. .10¾- —
l.c.l., works.....lb. .10¾- .11¼
Potash bichromate in bbls., ¼c. higher.
Borate, gran., bbls., c.l., works. ton.200.00 - —
ton lots, works.....ton.218.50 - —
less ton lots, works....ton.223.50 - —
Bromide, USP, cryst., gran., 500-lb. bbls., dms..lb. .25 - .26
Carbonate, calcined, bbls., c.l., works..lb. .07¼- —
l.c.l., same basis.....lb. .08 - —
hydrated, 83-85%, bbls., c.l., works..lb. .05¾- —
dms., l.c.l., same basis..lb. .06½- —
USP, gran., bbls., dms....lb. .14 - .19
powd., bbls., dms.....lb. .20 - .26
Caustic, low-chloride, 99% basis, flake, dms., c.l., works. 100 lbs. 9.50 - —
l.c.l., works....100 lbs.10.25 - —
liquid, dms., c.l., works..... 100 lbs. 8.75 - —
l.c.l., works....100 lbs. 9.50 - —
tanks, works.....100 lbs. 8.25 - —
solid .....100 lbs. 8.75 - —
l.c.l., works....100 lbs. 9.50 - —
regular, flake, 88-92%, dms., c.l., works..lb. .07½- —
l.c.l., works.....lb. .08¼- —
liquid, 45% basis, dms., c.l., works, frt. alld..lb. .0337½- —
l.c.l., same basis.....lb. .03¾- —
tanks, same basis.....lb. .03½- —
solid, 88-92%, dms., c.l., works..lb. .06¾- —
l.c.l. .....lb. .07½- —
Chromate, tech., bgs.....lb. .25 - .29
Chlorate, cryst., kgs., c.l., wks. lb. .06½- —
l.c.l., works.....lb. .09¾- —
powd., dms., kgs., c.l., works. lb. .09 - —
l.c.l., works.....lb. .09¾- —
export, 1 to 10 tons, kgs., ex whse..lb. .12 - —
Chloride, tech., cryst., 98%, bgs., kgs..lb. .08 Nom.
Citrate, USP, gran., bbls., dms. lb. .35½- .40½
powd., 3c. per lb. higher.
Cyanide, dms., works.....lb. .55 - —
Fluoride, bbls.....lb. .34 - .40
Glycerophosphate, 75% solution, cbys..lb. 2.30 - —
Guaiacol sulphonate, NF, dms. lb. 1.80 - 1.85
Hydroxide, USP, sticks, dom.lb. .34 - .36
Hypophosphite, cns.....lb. .72 - .75
Iodide, dms.....lb. 1.75 - 1.78
Manure salt, 22% K_2O, Carlsbad, N. M..unit-ton. .20 - —
25% K_2O, same basis.unit-ton. .21 - —
Metabisulphite, gran., bbls...lb. .19 - .21
powd. bbls.....lb. .25 - —
Muriate, dom., 60-62-63% K_2O, bulk, ex vessel ports.... unit-ton. .53½- —
50-52% K_2O, ex vessel, U. S. ports..unit-ton. .53½- —
Domestic muriate of potash prices, c.l., f.o.b. Carlsbad, N. M., are 37½c. per unit
Nitrate (see Saltpeter).
Oxalate, neutral, tech., fine gran., bbls., dms..lb. .28 - .34
Perchlorate, kgs., works.....lb. .10 - .11
Permanganate, tech., dms., works..lb. .20¾- .21¼
USP, dms., works.....lb. .22½- .28

STAUFFER CHEMICALS

FOR THE PULP & PAPER INDUSTRY

The pulp and paper industry relies on Stauffer as a dependable source of supply for large quantities of chlorine, caustic soda, sulphur, and other industrial chemicals. Stauffer operates over thirty plants in all sections of the country to supply you promptly and efficiently with industrial chemicals that have proved consistently dependable for over sixty years.

STAUFFER PRODUCTS

*Aluminum Sulphate	*Copperas	Sulphur
Borax	Cream of Tartar	Sulphuric Acid
Boric Acid	Muriatic Acid	Sulphur Chloride
Carbon Bisulphide	Nitric Acid	*Superphosphate
Carbon Tetrachloride	Rochelle Salt	Tartar Emetic
Caustic Soda	Silicon Tetrachloride	Tartaric Acid
Chlorine	Sodium Hydrosulphide	Titanium Tetrachloride
Citric Acid	Stripper, Textile	

(*Items marked with star are sold on West Coast only.)

Stauffer CHEMICALS SINCE 1885

Stauffer Chemical Company

420 Lexington Avenue, New York 17, N. Y.
221 North LaSalle Street, Chicago 1, Illinois
424 Ohio Bldg., Akron 8, Ohio—Apopka, Fla.
555 South Flower Street, Los Angeles 13, Cal.
636 California Street, San Francisco 8, Cal.
North Portland, Oregon—Houston 2, Texas

Potash persulphate, dms., c.l., works..lb. .16 - —
l.c.l., same basis.....lb. .20 - —
Phosphate, tetrabasic, bbls., works..lb. .13 - .13½
Prussiate, red, kgs.....lb. .55 - .68
Yellow, bbls.....lb. .19 - —
Ricinoleate, tech., bbls.....lb. .18 - —
Silicate, glass, bgs., c.l., works, ton.200.00 - —
l.c.l. .....100 lbs.15.25 - —
solution, 29° Be, ret. drums, c.l., works..100 lbs. 4.25 - —
l.c.l., 5 or more, works..100 lbs. 5.00 - —
1-4, works.....100 lbs. 5.50 - —
32° Be, ret. dms., c.l., works, 100 lbs. 4.75 - —
l.c.l., 5 or more, works, 100 lbs. 5.50 - —
1-4, works.....100 lbs. 6.00 - —
40.5° Be, ret. dms., c.l., works..100 lbs. 5.75 - —
l.c.l., 5 or more, works, 100 lbs. 6.50 - —
1-4, works.....100 lbs. 7.00 - —
Sulphate, NF, cryst.....lb. .30½- .33½
powd., bbls. .....lb. .14½- .17
tech., dom., bulk basis 90-95% K_2O_4 min. 90%, ex vessel Atlantic or Gulf ports..ton.36.25 - —
West coast potash ports, same basis..ton.39.25 - —
Sulphocyanide, cryst., N.F., dms..lb. .62 - .70
Triocyanate (see Potash sulphocyanide),
Xanthate, dms., c.l.....lb. .12 - —
Potash-magnesia sulphate, bulk, min., 40% K_2SO_4 18.50% MgO, ex vessel, ports...ton.26.00 - —
Potash-soda ferricyanide, kgs., works..lb. .45 - .48
Potash-titanium oxalate, bbls., dms..lb. .50 - .55
Prickly ash bark, bls.....lb. .33 - .34
Berries, bgs. .....lb. .20 - .21
Prince's pine herb, bls.....lb. .50 - .55
Procaine hydrochloride, cns., 100-lb. lots..lb. 5.00 - —
Propane, industrial grade, tanks, Group 3..gal. .06½- —
Propyleneglycol, dms., c.l., frt. alld. in E..lb. .15½- —
l.c.l., same basis.....lb. .16½- —
tanks, same basis.....lb. .14½- —
Psyllium seed (see Fleaseed).
Pulsatilla, bls. .....lb. .60 - .65
Pumice, grd., fine, bgs., ton lots, lb. .03½- —
smaller lots .....lb. .03¾- .04
coarse, 0, 1, 1½, 2, 3, bgs., ton lots..lb. .03¾- —
smaller lots .....lb. .03¾- .04¼
Chi., ton lots .....lb. .04½- —
Italian, silk-screen, fine, ton lots, bgs..lb. .04 - —
coarse, same basis.....lb. .05½- —
sun-dried, fine, ton lots, bgs. lb. .03 - —
coarse, same basis.....lb. .04½- —
Pumice in bbls. is ½c. per lb. higher.
Pumpkin seed, bgs.....lb. .27 - .29
Purple lake (see Red).
Putty, com'l, dms.....100 lbs. 3.85 - 4.55
linseed oil, raw, dms...100 lbs. 8.50 - 9.90
refined, dms. .....100 lbs.12.00 -13.20
standard, dms. .....100 lbs. 7.15 - 8.05
Pyrethrum, concentrate, dewaxed, 20% for aerosol bombs, dms., works..lb. 9.25 - 9.30
liquid (20 to 1), basis 2 grams pyrethrins for 100 cc., dms., regular base, works..gal. 6.65 - —
liquid, odorless base, dms., works..gal. 6.75 - —
(30 to 1), base 3 grams pyrethrins, per 100 cc, bbls., works..gal.10.00 - —
Pyrethrum, flowers, fine-grd., 0.9% pyrethrins, bbls., works..lb. .33¾- —
powder, 0.5% pyrethrins, bbls., works..lb. .25 - —
Pyridin, denaturing, ret. dms., works, frt. equald..gal. 1.55 - 1.90
refd., 2°, ret. dms., same basis, lb. .55 - .55½
Pyridoxin hydrochloride, 100-gram lots..kilo.650.00 - —
Pyrites, Spanish, c.l.f. Atl. ports, long-ton. 8.00 -10.00
Pyronate, dms., c.l., dlvd. E. of Miss..gal. .70 - —
l.c.l., works .....gal. .70 - —
tanks, dlvd., E. of Miss..gal. .60 - —
Pyrenate prices W. of Miss., 3c. per gal. higher.
Pyrocatechin (see Catechol).
Pyrophylite, standard, 200 mesh, c.l., bulk, mines..ton.10.00 -11.50
325 mesh, same basis.....ton.13.00 -13.90
No. 3, 200 mesh, c.l., mines.ton. 9.50 - —
325 mesh, same basis....ton.11.50 - —
Pyrophylite in paper bags, $1.50 per ton extra.
Pyroxylin, scrap, opaque, amber, cs., works..lb. .17 - —
black, cs., works.....lb. .17 - —
gray, cs., works.....lb. .17 - —
mixed, mottled, cs., wks.lb. .14 - —
white, China, ivory, cs., wks. lb. .17 - —
dense, cs., works.....lb. .17 - —
translucent, pastels, cs., works..lb. .17 - —
transparent, cs., works.....lb. .19 - —
colors, cs., works.....lb. .17 - —
shavings, amber, cs., works..lb. .17 - —
mixed colors, cs., works..lb. .14 - —
white, cs., works.....lb. .17 - —

Q

Quassia chips, bls.....lb. .07 - .09
Quebracho extract, solid, 65% tannin, bgs., c.l., ex dock, in bond..lb. .09¼- .09½
clarified, 64% tannin, bgs., c.l., same basis..lb. No prices.
25% tannin, bbls., works, lb. .07 - —
tanks, works .....lb. No prices.
extract, ground, 70% tannin, bgs., c.l..lb. .14¼- —
powder, bgs., c.l.....lb. .13½- —
Quebracho extract prices based on $28 freight and $1.00 insurance per long ton.
Queen of the meadow root, bxs. lb. .12 - .13
Quercitron crystals, bbls.....lb. .32 - —
Extract, No. 1, bbls.....lb. .14 - —
solid, bxs. .....lb. .27 - —
Quicksilver, flasks (76 lbs. net) flask.84.00 -85.00
Quince seed, bgs.....lb. 1.30 - 1.75
Quinidine, NF V, cryst., cns.oz. No stocks.
powd., precip., cns.....oz. No stocks.
Sulphate, USP, cns.....oz. No stocks.
Quinine, NF, cns., 100 ozs....oz. No stocks
Acetate, cns., 100 ozs.....oz. No stocks
Arsenate, cns., 100 ozs.....oz. No stocks
Arsenite, cns., 100 ozs.....oz. No stocks
Bisulphate, USP, cns., 100 ozs. oz. No stocks
Citrate, cns., 100 ozs.....oz. No stocks
Dihydrobromide, bots., 50 ozs. oz. No stocks
Quinine ethylcarbonate, NF, cns., 100 ozs..oz. No stocks
Ferrocyanide, cns., 100 ozs..oz. No stocks
Formate, cns., 100 ozs.....oz. No stocks
Hydrochlorosulphate, cns., 100 ozs..oz. No stocks
Hydrochloride, USP, cns., 100 ozs..oz. .80½- —
Hydrochlorosulphate, cns., 100 ozs..oz. No stocks
Hydroiodide, cns., 100 ozs..oz. No stocks
Hypophosphite, cns., 100 ozs.oz. No stocks
Phosphate, NF, cns., 100 ozs.oz. No stocks
Salicylate, NF, cns., 100 ozs.oz. No stocks
Sulphate, USP, cns., 100 ozs.oz. .80½- —
Sulphocarbolate, cns., 100 ozs. oz. No stocks
Tannate, USP X, cns., 100 ozs. oz. No stocks
Tartrate, cns., 100 ozs.....oz. No stocks
Valerate, NF IV, 100 ozs....oz. No stocks
Quinine-urea hydrochloride, USP, cns..oz. No stocks
Quinoline, dms., c.l., works...lb. .32 - .50

R

R salt, dry, bbls.....lb. .61 - .72
paste, dms. .....lb. .57 - —
Raspberries, dried, bls.....lb. 2.00 - 2.10
Red, alizarin lake, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis...lb. 1.45 - 2.05
Prices ½c. per lb. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1¼c.), (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. per lb. higher dlvd. Pacific Coast prices equaled with Chicago dlvd Denver, Pueblo, Salt Lake City, Wichita
Red, cadmium lithopone, deep shade, bbls., frt. alld. E. of Rockies..lb. 1.25 - —
light shade, bbls., same basis..lb. 1.10 - —
maroon, bbls., same basis, lb. 1.35 - 1.45
medium shade, bbls., same basis, lb 1.20 - —
medium-light shade, bbls., same basis..lb. 1.15 - —
Orange-red, bbls., same basis..lb. 1.05 - —
Red cadmium lithopone, all shades, in smaller pkgs, 5c. per lb. higher; all prices are lc. per lb. higher ex whse., Los Angeles and San Francisco.
Carmine, No. 40, dms., bulk, works..lb. 5.50 - 5.65
smaller lots, same basis..lb. 6.10 - 6.15
Crocus martis (see Red, purple, oxide).
Dyes (see Dyes, coaltar).
Eosin toner, bbls., works....lb. 1.35 - —
Fire-toner, dom., bbls., works.lb. .95 - .98
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y..lb. .11½- —
90-95%, bgs., same basis.lb. .09½- —
imp., English, all shades..lb. .16 - —
Iron oxide, pure, bbls.....lb. .10 - .10¼
reduced, 85% copperas oxide, bbls., l.c.l., Bethlehem, Pa., Copley, O., Easton, Pa., and E. St. Louis..lb. .06¾- —
80% copperas oxide, bbls., same basis..lb. .085 - .094
Lacquer, maroon, bbls., works, lb. 1.35 - 1.50
Lake C toner, alizarin, bbls., works..lb. 1.05 - —
Lithol toner, alizarin, lake, bbls., works..lb. .70 - —
Pink, bbls., works.....lb. .20 - .25
Rose lake, bbls., works.....lb. .25 - .28
Red, lithol-rubin toner, alizarin lake, bbls., works..lb. 1.30 - —
Maroon, alizarin lake, 25%, kgs., works..lb. .40 - .43
Cadmium, bbls., works....lb. 1.10 - —
deep, bbls., same basis..lb. 1.20 - —
Maroon, in smaller pkgs., 5c. per lb. higher.
Mercury oxide, tech., bbls., 10,000 lbs., works..lb. 2.30 - —
smaller lots, works...lb. 2.33 - —
Metallic, bbls., works.....lb. .02 - —
Oxide (see Red, iron oxide).
Para toner, chlorinated, kgs.lb. .97 - —
concent., alizarin lake, kgs., works..lb. .80 - —
Persian (see Orange).
Phloxin toner (see Red, eosin toner).
Phosphotungsic, rhodamine, Y, kgs., works..lb. 4.15 - —
Purple lake, kgs.....lb. 1.35 - —
Scarlet ink toner, kgs., works, lb. .85 Nom.
Spanish oxide, grade 1, c.l., bbls..lb. .05¾- .07
Toluidin toner, alizarin lake, kgs., works..lb. 1.25 - —
MNPT maroon toner, kgs., works..lb. 3.25 - —
Turkey, bbls., works.....lb. .14½- —
Tuscan, bbls., E. St. L.....lb. .11 - —
Venetian, 15%, bgs., works...lb. .0300-
20%, bgs., works.....lb. .0310-
25%, bgs., works.....lb. .0340-
30%, bgs., works.....lb. .0365-
35%, bgs., works.....lb. .0395-
40%, bgs., works.....lb. .0420-
Vermillion, Amer., bbls.....lb. .22¼- .48
Quicksilver, bbls.....lb. 2.50 - 2.65
Red precipitate, NF, powd., lb. dms..lb. 2.48 - 2.50
Red saunders wood, grd., bbls.lb. .35 - —

IT'S A FACT. Chemical Rust Inhibition is far more important for corrosion prevention in many applications than are protective coatings or special alloys. Corrosion authorities agree that it is as costly a mistake to bring steel or cast iron into contact with stagnant or re-circulating water, without the addition of a chemical rust inhibitor, as it is to expose these metals to the weather for any length of time without protection.

Mutual Chromium Chemicals are used extensively as corrosion inhibitors. In most instances surprisingly small amounts of chromate are required to prolong the life of the exposed metal indefinitely. The following is a partial list of the varied uses of Mutual Chromium Corrosion Inhibitors: recirculating spray systems for air washing and conditioning, engine jacket water for locomotive and marine diesels, cooling systems for automobiles and stationary power plants, mercury arc rectifiers, refinery condensers and coolers, high-chloride cooling water, hydraulic lifts, sand blasts, slushing compounds and water-soluble cutting oils, pontoons and buoys, gasoline and kerosene pipe lines and tanks, calcium and sodium refrigerating brines, sealed-in absorbents for unit refrigerators, and similar uses.

If any of these applications suggests the use of Chromates in one of your operations, write for further information to our Research Department, stating in detail your corrosion problem.

MUTUAL CHEMICAL COMPANY OF AMERICA

270 Madison Avenue, New York 16, N. Y.

MUTUAL CHEMICAL CO. OF AMERICA — NEW YORK, N.Y.

Mutual

CHROMIUM CHEMICALS

Resorcinol tech., dms., works..lb. .68 - —
USP, cryst., dms., works....lb. 1.70 - —
Rhatany root, bgs.....lb. .13 - .14
Rhubarb, whole, cs.....lb. .90 - 1.00
powd., bbls.....lb. 1.05 - 1.10
Riboflavin, bots.....kilo.200.00 - —
Rice bran concentrate, dms., Cedartown, Ga., or Emeryville, Calif., seller's option. lb. .79 - —
Rochelle salt, gran., powd., bbls., 5,000 lbs., 1 ship't..lb. .34½- —
smaller lots.....lb. .35 - —
Rose flowers, pale, bls.....lb. .24 - .26
Rosemary flowers, bls.....lb. 1.55 - 1.65
Leaves, French, bls.....lb. .12 - .12½
Portuguese, bls.....lb. .07½- .08
Spanish, bls.....lb. .13 - .13¼
Rosin, gum (see Naval Stores, Protective Coatings market).
Wood, B (resin), dms., c.l., works..100 lbs. 6.00 - —
FF, dms., c.l., works..100 lbs. 7.50 - —
G, H, I, dms., c.l., works.. 100 lbs. 8.80 - —
K, dms., c.l., works..100 lbs. 8.80 - —
M, dms., c.l., works..100 lbs. 8.85 - —
N, dms., c.l., works..100 lbs. 8.90 - —
WG, dms., c.l., works..100 lbs. 8.95 - —
WW, dms., c.l., works..100 lbs. 9.00 - —
X, dms., c.l., works..100 lbs. 9.10 - —
Rotenone, bbls., works.....lb.20.00 -24.00
extract, liq., dms., works..... per unit. 1.75 - —
powder (see Cube root).
Rottenstone, bgs., c.l., mines..ton.36.00 - —
l.c.l., mines.....ton.43.00 - —
Rue, bls.....lb. .45 - .46

S

Sabadilla seed, powd., bbls...lb. .75 - .82
activated, ground, with lime, bbls..lb. .43 - .50
Saccharin, insoluble and soluble, 1,000 lbs. and up..lb. 1.30 - 1.35
smaller lots.....lb. 1.40 - 1.50
Saffron, Mexican, bls.....lb. 1.55 - 1.60
Spanish, USP, tins.....lb.7.00 -38.00
boxes .....15 ozs.35.00 -36.00
Safrol, cns.....lb. 1.10 - 1.45
Sage, Cyprus, good, bls.....lb. .16½- .17
futures, bls.....lb. .16 - .16½
Dalmatian, bls.....lb. .26 - .27
Greek, fancy, bls.....lb. .22 - .22½
Palestine, bls.....lb. .16 - .16½
Spanish, bls.....lb. .15 - .15½
Sago flour, bgs.....lb. .07 - .07½
Salicin, bots., 25 lbs.....lb. No stocks
cns., 25 lbs.....lb. No stocks
Saligenin, dms., works.....lb.15.00 -20.00
Salol, gran., bbls., kgs.....lb. 1.00 - —
fib. dms.....lb. 1.02 - 1.03
Powdered salol, 10c. higher.
Salt, rock, bgs., c.l.....ton.17.50 - —
l.c.l., bgs.....ton.21.70 - —
vacuum, common, fine, bgs., c.l..ton.18.60 - —
l.c.l. .....ton.25.10 - —
Saltcake, dom., bulk, works..ton.20.00 -26.00
Chrome (see Chrome cake).
Saltpeter, cryst., bbls., 10 tons. 100 lbs.12.40 - —
smaller lots, bbls....100 lbs.12.65 -12.90
gran., bbls., 20 tons.....100 lbs. 8.00 - —
smaller lots .....100 lbs. 9.00 - 9.50
powd., bbls., 20 tons....100 lbs. 9.00 - —
smaller lots .....100 lbs.10.00 -10.50
Saltpeter in bags is 25c. per 100 lbs. less than in barrels; in kegs it is $1 more.
Sanguinarine nitrate, bots....oz. 4.75 - 5.50
Santonin, cryst., powd., cns.kilo.175.00 -185.00
Saponin, No. 1, cns.....lb. 1.75 - 1.90
No. 2, cns.....lb. 1.40 - —
Sarsaparilla root, dem., bls...lb. .45 - .50
Honduras .....lb. .65 - .66
Mexican, bls.....lb. .57 - .60
Sassafras bark, ord., bls.....lb. .45 - .50
select, bls.....lb. .65 - .70
Savory, French, bls.....lb. .21 Nom.
Saw palmetto berries, bgs....lb. .23 - .24
Scammony resin, lump, cns...lb. 1.80 - —
powd., cns.....lb. 1.85 - —
Root, bgs.....lb. .13 - .14
Scheffer's salt, bgs.....lb. .60 - —
Seidlitz mixture, bbls., 5,000 lbs., 1 shipment..lb. .27¾- —
smaller lots.....lb. .28¼- —
kegs, 5,000 lbs., 1 shipm't..lb. .28¼- —
smaller lots.....lb. .28¾- —
Selenium, pwd., cns., 10-lb. lots..lb. 1.85 - —
cs., 1,000-lb. lots.....lb. 1.75 - —
Senega root, bls.....lb. 2.25 - 2.35
Senna leaf, Alex., half-leaf, bls. lb. .26 - .27
siftings, bgs.....lb. .23 - .24
Tinnevelly, No. 1, bls.....lb. .25 - .27
2 bls.....lb. .23 - .25
3, bls.....lb. .21 - .23
powd., bbls., bgs.....lb. .24 - .29
Pods, bls.....lb. .53 - .54
Serpentaria root, bls.....lb. No stocks
Shellac, bleached, bonedry, bbls., 1,500-lb. lots..lb. .65 - —
refined, bbls., 1,500-lb. lots. lb. .73 - —

Bonedry shellac sales of less than 1,500 lbs., at following additions to prices: (1) packed in bgs., ¾c. per lb.; (2) bbls., 1c. more; (3) kgs., 3c. more.

Superfine, 100 bgs.....lb. .62 - —
TN, 100 bgs.....lb. .60 - —

Shellac in cs., 2c. higher. Shellac sales 1 bg. or 1 cs., 5c. additional; 1 to 9 bgs. or cs., 2c. more; 10 to 99 bgs., cs., 1c. more.

Silica, amorph., dry-grd., 325 mesh, bgs., c.l., Ill. works. ton.17.00 - —
l.c.l., works .....ton.20.00 - —
400 mesh, bgs., c.l., works. ton.18.00 - —
l.c.l., works .....ton.19.00 -20.00
Silica, amorph., wet-grd., 320 mesh, bgs., c.l., works. ton.18.00 - —
l.c.l., works .....ton.21.00 - —
400 mesh, bgs., c.l., works, ton.20.00 - —
l.c.l., works.....ton.25.00 -28.00
96-98%, 325 mesh, bgs., c.l., works..ton.20.00 - —
l.c.l., works .....ton.21.50 -28.00
99%, 325 mesh, bgs., c.l., works...ton.20.00 - —
l.c.l., works .....ton.22.00 -25.00
hard-quartz, 99½%, 325 mesh, bgs., c.l., works..ton.15.50 - —
l.c.l., works .....ton.18.50 - —
140 mesh, bgs., c.l., works.. ton.11.00 - —
l.c.l., works .....ton.16.00 - —
Tetrachloride, tech., dms., c.l., works..lb. .15¼- —
l.c.l., works .....lb. .16½- .27
Silver, bullion.....oz. .72%- —
Cyanide, cns., 100 ozs.....oz. .76%- —
Nitrate, 250-oz. bots., 2,500-oz. lots..oz. .49%- —
1,000-oz. lots .....oz. .49½- —
500-oz. lots .....oz. .50¼- —
single 250-oz. lots.....oz. .50%- —
Neucleinate, USP, bots., dms., 1,000-oz. lots..oz. .45 - —
Proteinate, USP, bots., dms., 1,000-oz. lots..oz. .40 - —
Simarubra bark, bls.....lb. .85 - .86
Skullcap, Eastern, bls.....lb. .85 Nom.
Western, bls.....lb. .30 - .35
Skunk cabbage root, bls.....lb. .44 - .45
Slate flour, bgs., c.l., works.ton.11.00 -12.00
l.c.l., ex whse. .....ton.20.00 - —
Sloe berries, bgs. .....lb. .39 - .40
Smalt, black, ctns. .....lb. .05 - .06
Blue, ctns. .....lb. .07 - .06½
Snakeroot, Canada, bls.....lb. .63 - .65
Soapbark, bls. .....lb. .24 - .25
crushed, bls., bbls.....lb. .32 - .33
cut, imp., bbls. .....lb. .32 - .33
powd., bbls. .....lb. .30 - .31
Soda acetate, anhyd., dms., dlvd. lb. .06½- .10
cryst., NF, bbls., kgs.....lb. .14 - .16
tech., 60%, l.c.l., dlvd....lb. .05½- .06
Alginate, refined, water-soluble, bbls., works..lb. .79 - —
semi-refined, bbls., works..lb. .42 - —
white, powd., dms.....lb. 1.50 - 1.60
Alkylbenzene sulphate, dms., works..lb. .13 - —
Aluminate, for water treat., bgs., c.l., works..100 lbs. 7.50 - —
l.c.l., works.....100 lbs. 8.40 - —
other uses, bgs., c.l., works.. 100 lbs. 7.00 - —
l.c.l. .....100 lbs. 7.50 - 8.00
Antimoniate, bbls., dlvd.....lb. .10 - .16½
Arsenate, dealers, dms., c.l., works..lb. .12 - —
l.c.l., works.....lb. .13½- .13¾
Arsenite, grey, dms., dealers, c.l., works..lb. .10¾- —
l.c.l., works.....lb. .13¼- .13¾

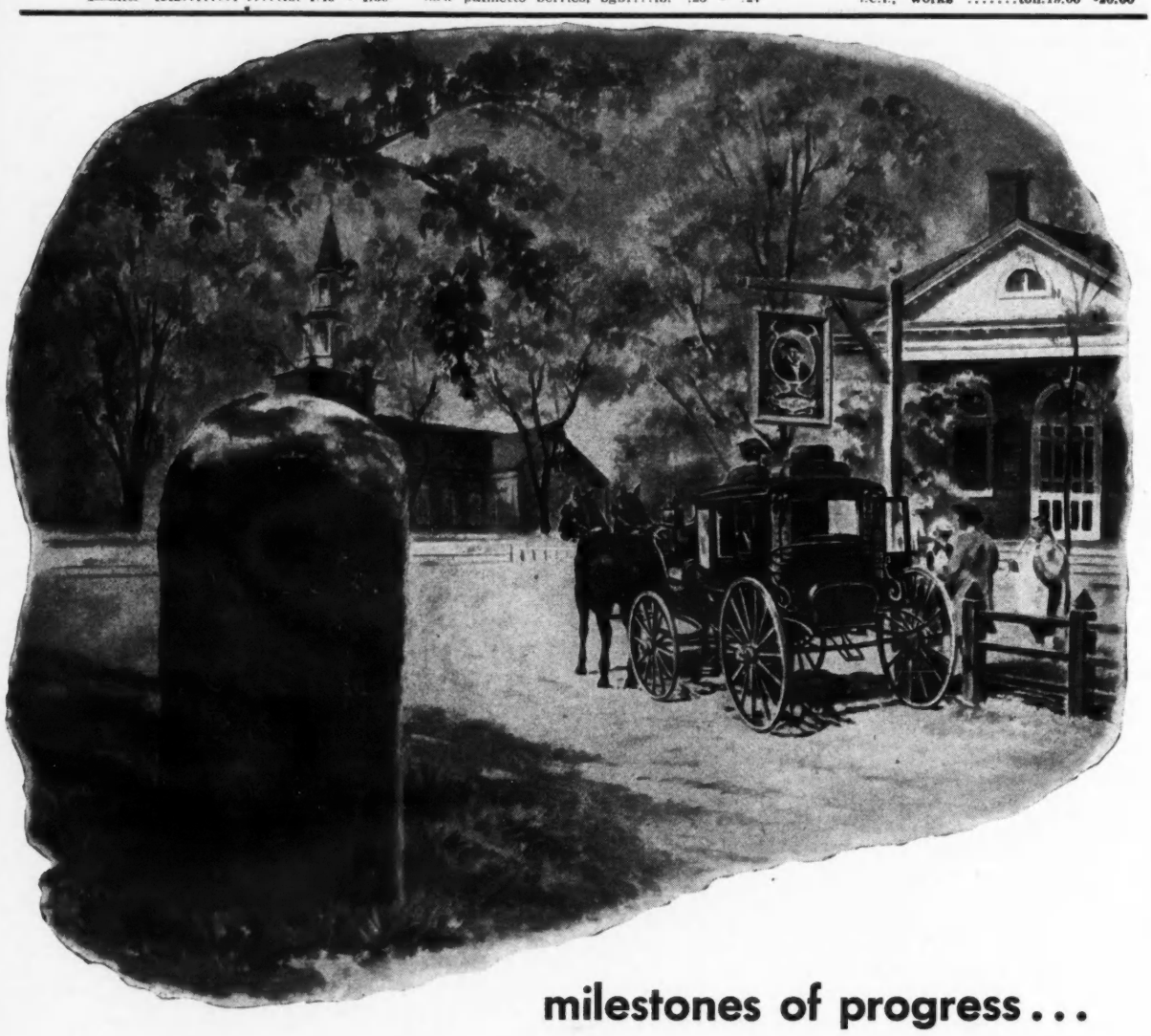
Soda arsenite, gray ¾c. higher in Chi., 2c. higher in Houston, Tex., and Palo Alto, Calif.

Ash, dense, 58%, bgs., c.l.... 100 lbs. 1.28 - —
l.c.l., dlvd., zone 1.... 100 lbs. 2.63 - —
2 .....100 lbs. 2.78 - —
3 .....100 lbs. 3.13 - —
4 .....100 lbs. 3.73 - —
bbls., c.l., works, zone 1. 100 lbs. 1.68 - —
l.c.l., zone 1.....100 lbs. 3.03 - —
2 .....100 lbs. 3.18 - —
3 .....100 lbs. 3.53 - —
4 .....100 lbs. 4.13 - —
bulk, c.l., works..100 lbs. 1.08 - —
extra light, 58%, bgs., c.l.... 100 lbs. 1.30 - —
l.c.l., dlvd., zone 1.... 100 lbs. 2.65 - —
2 .....100 lbs. 2.80 - —
3 .....100 lbs. 3.15 - —
4 .....100 lbs. 3.75 - —
light, 58%, bgs., c.l., zone 1. 100 lbs. 1.20 - —
l.c.l., dlvd., Zone 1..... 100 lbs. 2.55 - —
2 .....100 lbs. 2.70 - —
3 .....100 lbs. 3.05 - —
4 .....100 lbs. 3.65 - —
bbls., c.l., works..100 lbs. 1.60 - —
l.c.l., dlvd., Zone 1.. 100 lbs. 2.95 - —
2 .....100 lbs. 3.10 - —
3 .....100 lbs. 3.45 - —
4 .....100 lbs. 4.05 - —
bulk, c.l. .....100 lbs. 1.00 - —

Prices f.o.b. stock points in zones indicated. Minimum quantity 500 lbs. For less than 500 lbs., prices are ex-warehouse.

Soda ash sales zones are: (1) All States E. of Miss. R. and N. of south bound. of Ky. 31°, Tex. E. of 100°, S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark., E. of 98° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb. E. of 98°, N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 98°, Kans., Neb., W. of 98°, N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.

Benzoate, tech., bbls., 2 tons or more..lb. .39 - —
smaller lots.....lb. .40 - .41
USP, dms., 2 tons or more, lb. .46 - —
smaller lots.....lb. .47 - .52
Bicarbonate, USP, gran., bgs., c.l., works..100 lbs. 2.25 - —
l.c.l. .....100 lbs. 2.57½- 2.80
Bichromate, bgs., c.l., works.lb. .06¼- —
l.c.l., works.....lb. .08¾- .09¾
Soda bichromate, in bbls., ½c. higher.
Bifluoride, bbls., c.l., frt. alld. E..lb. .11¼- —
l.c.l., same basis.....lb. .13 - .14
kgs., same basis.....lb. .13¼- .14
Bisulphite, powd., bbls., c.l., works..100 lbs. 3.00 - 3.25
l.c.l., works.....100 lbs. 3.50 - 3.60
solut., 32°, bbls., c.l., works. 100 lbs. 1.30 - —
l.c.l., works.....100 lbs. 1.55 - —
35°, bbls., c.l., works.. 100 lbs. 1.40 - —
l.c.l., works.....100 lbs. 1.65 - —
40°, bbls., c.l., works.100 lbs. 1.55 - —
l.c.l., works.....100 lbs. 1.80 - —
Bromide, USP, gran., bbls., 300 lbs., works..lb. .25 - —
dms., works.....lb. .25 - .30
Cacodylate, bots., dms.....lb. 8.50 -12.00
Carbonate (see Soda ash, Soda monohydrate Soda sal).
Caustic, flake, powd., 76%, dms., c.l., works..100 lbs. 2.90 - 3.00
l.c.l., zone 1, dlvd..100 lbs. 4.22 - —
2, dlvd.....100 lbs. 4.40 - —
3, dlvd.....100 lbs. 4.75 - —
4, dlvd.....100 lbs. 5.35 - —
liquid, 50%, buyers' tanks, works, dry basis..100 lbs. 2.00 - —
sellers, tanks, works, dry basis..100 lbs. 2.10 - —
70%, sellers' tanks, works, dry basis..100 lbs. 2.10 - —



milestones of progress . . .

THE PIONEER CREED
Always New, Always Better

Since the turn of the century Niagara has pioneered basic electro-chemical development in this country. This experience is reflected not only in Niagara product quality but also in the efficiency of the service that Niagara extends to customers seeking to blaze new trails to product improvement.

LIKE THE MILESTONES that marked the distances along the old colonial post roads and turnpikes, the discoveries of pioneer chemists mark the course of progress in many industrial fields. Long a pioneer in the development of electro-chemical products, Niagara has directed progress in various industries through the production, for the first time in this country, of such important materials as liquid chlorine, caustic potash, carbonate of potash and the steady improvement of other products of this type. The advantages of many years of experience can be of substantial value to you in obtaining economical and satisfactory results from the use of electro-chemical products. Niagara Alkali Company, 60 East 42nd Street, New York 17, N. Y.

AN ESSENTIAL PART OF AMERICA'S GREAT CHEMICAL ENTERPRISE

Niagara Alkali Company

LIQUID CHLORINE · CAUSTIC POTASH
CARBONATE OF POTASH · PARADICHLOROBENZENE
CAUSTIC SODA · NIAGATHAL (TETRACHLORO PHTHALIC ANHYDRIDE)

Soda caustic, 76%, dms., c.l., works..100 lbs. 2.50 - 2.75
l.c.l., zone 1, dlvd..100 lbs. 3.85 - —
2, dlvd.....100 lbs. 4.00 - —
3, dlvd.....100 lbs. 4.35 - —
4, dlvd.....100 lbs. 4.95 - —
Prices f.o.b. stock points in zones indicated Minimum quantity 500 lbs. For less than 500 lbs., prices are ex-warehouse. Caustic soda zones are same as soda ash

Chlorate, cryst., bgs., c.l., works..lb. .06¼- —
l.c.l., works.....lb. .06½- —
powd., kgs., c.l., works....lb. .06½- —
l.c.l., works.....lb. .07 - .08½
Chloride (see Salt).
Chromate, bgs., c.l., works, frt. equald..lb. .09½- —
l.c.l., works, frt. equald..lb. .09¾- .10
Soda chromate in bbls., ½c. higher.
Citrate, USP VIII, bbls.....lb. .20 - —
dms.....lb. .21 - .25
USP XIII, gran., bbls.....lb. .26 - —
dms.....lb. .27 - .31
Prices for powdered potash citrate, USP XIII, are ½c. higher.

Cyanide, 96-98%, dms.....lb. .14½- .15
Diacetate, 38-35% acidity, bbls., works, dlvd..lb. .09½- .10½
anhydrous, dms., works....lb. .11½- .13
Fluoride, white, 90%, bbls., c.l., works..lb. .09½- —
l.c.l., works.....lb. .09¾- —
95%, bbls., c.l., works...lb. .09¾- —
l.c.l, works.....lb. .10 - —
Soda fluoride prices at Los Angeles are f.a.s. works.

Formate, bgs., c.l., works...lb. .0605- .065
l.c.l.....lb. .07 - .0705
Glutamate, monobasic, kgs..lb. 1.46 - 1.48
Glycerophosphate, NF, cryst., bbls..lb. 1.90 - —
powder, bbls.....lb. 1.95 - —
solution, 75%, cbys.....lb. 1.10 - —
50%, cbys.....lb. .85 - —
Hydrosulphite, dms., c.l., frt. alld..lb. .18½- .19
l.c.l., frt. alld.....lb. .19 - .20
Hydroxide, USP, sticks, dms.lb. .24 - 29
Hypophosphite, NF, cns.....lb. .67 - .70
Hyposulphite, cryst., bgs., c.l., works, frt. equald.....
100 lbs. 2.75 - —
l.c.l., same basis..100 lbs. 3.15 - —
pea, cryst., bgs., wks.100 lbs. 4.30 - 5.25
Soda, hyposulphite, crystals, in bbls., 40c. higher; pea crystals, dms., 50c. higher.
USP, cryst., bbls.....lb. .10 - .12
Iodide, dms., jars.....lb. 2.72 - 2.83
Mandelate, dms.....lb. 3.25 - 3.35
Metaborate, gran., bgs., c.l., works..ton.90.50 - —
ton lots, works.....ton.105.00 - —
less ton lots, works..ton.113.00 -
Ammonia metaborate in bbls., $20 per to. higher.

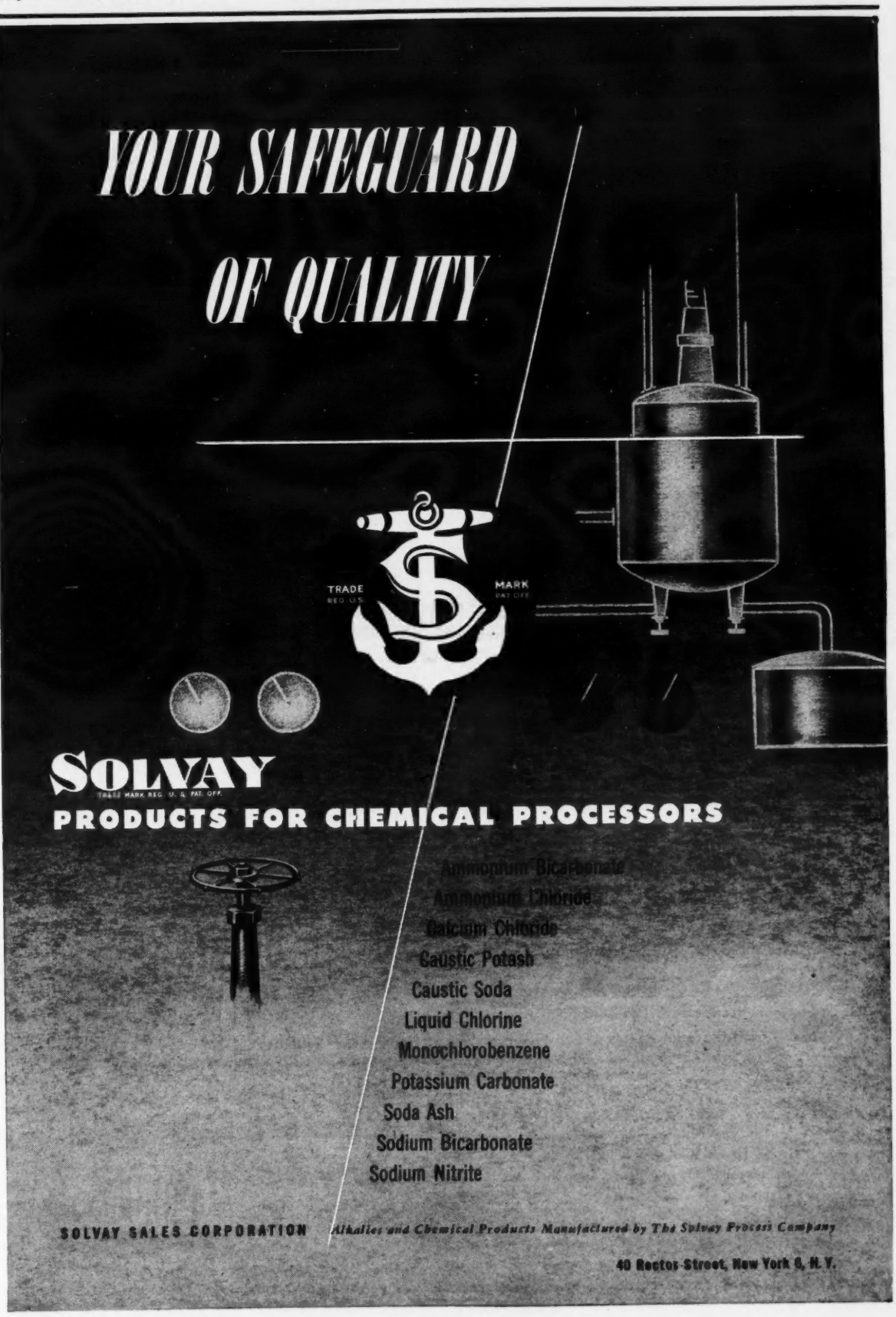
Metanilate, bgs.....lb. .48 - —
Metasilicate, anhyd., bbls., c.l., works..100 lbs. 4.00 - —
gran., bgs., c.l., works.....
100 lbs. 3.00 - —
l.c.l., New York..100 lbs. 3.90 - 4.25
bbls., c.l., works...100 lbs. 3.40 - —
l.c.l., New York...100 lbs. 4.30 - 4.75
Methylate, bots., works.....lb. 1.00 - —
cns., works.....lb. .55 - .60
dms., works.....lb. .45 - .60
Molybdate, anhyd., kgs., works. lb. .47 - —
crystals, bgs., works.....lb. .60
Monohydrate, bgs., c.l...100 lbs. 2.00 - —
works.....100 lbs. 2.45 - —
Naphthionate, bbls.....lb. .46 - .55
Nitrate, dom., crude, 100-lb. bgs., c.l., works..ton.35.50 - —
bulk, c.l., works.....ton.32.00 - —
refd., gran., bbls., 10 tons.. 100 lbs. — - —
smaller lots.....100 lbs. — - —
imp., 100-lb. bgs., c.l., Atl. Gulf, Pac. whse..ton.41.50 - —
bulk, same basis.....ton.38.50 - —
Nitrite, 96-98%, bbls., c.l., works, frt. equald..lb. .06¾- —
West coast, ports....100 lbs. 8.00 - 8.00
l.c.l., dlvd.....100 lbs. 8.00 -11.00
Orthosilicate, anhyd., bbls., c.l., works, frt. equald..100 lbs. 4.00 - —
l.c.l., same basis.100 lbs. 5.45 - 5.80
flake, hydrated, bbls., c.l., works..100 lbs. 4.00 - —
l.c.l., works .....100 lbs. 5.10 - 5.35
Oxalate, neut., bgs., works..lb. .10 - —
Pantothenate, dextrorotary, 100-gram bots..per gram. .10 - —
Pentachlorophenate, briquets, bgs., works, frt. equald..lb. .17 - .19
powd., bgs., c.l., works, frt. equald..lb. .16 - .16½
l.c.l., works, frt. equald.lb. .17 - —
kgs., l.c.l., works, frt. equald. lb. .19 - —
Perborate, NF, bbls., c.l., works..lb. .14¾- —
l.c.l., works.....lb. .15½- —
Peroxide, dms., c.l., dlvd. E. of Miss..lb. .14 - —
smaller lots .....lb. .17 - —
Phosphate, dibasic, tech., anhyd., bgs., c.l., works.. 100 lbs. 6.25 - —
l.c.l., works.....100 lbs. 6.75 - 7.00
cryst., bgs., c.l., works.. 100 lbs. 3.50 - —
l.c.l., works....100 lbs. 3.75 - 3.90
USP XII, dried, bbls., dms., works. lb. .150 - —
monobasic, anhydrous, bgs., works..100 lbs. 7.25 - 8.25
l.c.l., works.....100 lbs. 7.65 - 9.00
tribasic, anhydrous, bgs., c.l., works, frt. equald.100 lbs. 7.00 - —
l.c.l., same basis.100 lbs. 7.50 - 8.00
cryst., bgs., c.l., works.... 100 lbs. 3.50 - —
l.c.l., same basis.100 lbs. 3.90 - —
kgs., c.l., works..100 lbs. 4.20 - —
l.c.l., works....100 lbs. 4.40 - —
Soda phosphate in bbls. 40c. higher. USP (see Sodium phosphate, dibasic).

Prussiate, yellow, bgs.....lb. .12 - —
bbls.....lb. .12¼- —
Pyrophosphate, acid, bgs., works, frt. equald..100 lbs.10.00 -11.85
ferric, dms., 10,000 lbs., works..lb. .23 - —
smaller lots, works.....lb. .22½- —
tetrabasic, anhydrous, bgs., c.l., works, frt. equald. 100 lbs. 6.00 - —
Ricinoleate, tech., bbls.....lb. No stocks.
Sal, bgs., c.l. .....100 lbs. 1.35 - —
works, c.l. .....100 lbs. 1.10 - —
bbls., c.l. .....100 lbs. 1.40 - —
works, c.l. .....100 lbs. 1.20 - —
Salicylate, dms. .....lb. .57 - .60
Sesquicarbonate, bgs., c.l., works..100 lbs. 1.50 - —
bbls., c.l., works...100 lbs. 1.70 - —
l.c.l., zone 1, dlvd..100 lbs. 2.70 - —
2, dlvd. .....100 lbs. 2.85 - —
3, dlvd. .....100 lbs. 3.10 - —
4, dlvd. .....100 lbs. 3.50 - —
Soda sesquicarbonate l.c.l. price zones are same as those for soda ash.
Sesquisilicate, bbls., c.l., works. 100 lbs. 3.90 - —
l.c.l., dlvd. .....100 lbs. 5.15 - 5.30

Soda silicate, 40°, turbid., dms., c.l., works..100 lbs. .95 - 1.15
l.c.l., works.....100 lbs. 1.20 - 1.30
tanks, works .....ton.15.00 - —
52°, turbid, dms., c.l., works, 100 lbs. 1.55 —
l.c.l., works.....100 lbs. 1.80 - 2.00
tanks, works .....ton.27.00 - —
Silicofluoride, bbls., c.l., works. lb. .07½- —
l.c.l., works .....lb. .08½- —
Stannate, dms., works, frt. alld. E..lb. .43½- .47½
Stearate, bbls., works.....lb. .19 - .24
Sulphate, NF, dried, powd., bbls..lb. .10 - .10½
tech., anhyd., bgs., c.l., works. 100 lbs. 2.10 - —
l.c.l., works.....100 lbs. 2.35 - 2.60
cryst. (see Glauber's salt).
USP, cryst., gran., bbls...lb. .07 - .07½
Sulphide, cryst., bbls., c.l., works..100 lbs. 2.90 - —
l.c.l., dlvd. .....100 lbs. 3.05 - 3.90
solid, bbls., c.l., wks.100 lbs. 3.05 - —
l.c.l., dlvd.....100 lbs. 4.15 - 4.50
Sulphite, cryst., bgs., c.l., works..100 lbs. 2.60 - —
l.c.l., works.....100 lbs. 3.00 - —
bbls., c.l., works.....100 lbs. 3.00 - —
l.c.l., works.....100 lbs. 3.40 - —
powd., bbls., c.l., works, 100 lbs. 5.25 - —
l.c.l., works .....100 lbs. 5.50 - 6.00
Sulphocarbolate, USP IX, gran., bbls., dms..lb. .28 - .33
powd., bbls. .....lb. .30 - .35
Sulphocyanide, CP, dms....lb. .55 - .65
Sulphohydrate, flake, 70-72%, dms., c.l..lb. .05 - —
l.c.l. .....lb. .05½- —
liquid, 38%, tanks, basis 100%, works..lb. .04 - —
Sulphoxylate, formaldehyde, dms., c.l., works, frt. alld..lb. .17½- —
Sulphoricinoleate, bbls. ....lb. .12 - —

Soda thiocyanate (see Soda, sulphocyanide).
Tripolyphosphate, bgs., works, frt. equald..lb. .07½- .08½
Thiosulphate (see Soda hyposulphite).
Tungstate, tech., bgs.....lb. 1.45 - —
Soda-ammonia phosphate, bbls., works, frt. equald..lb. .23 - —
Soda - cinchophen, bots., dms., works..lb. 5.00 - 5.10
Soda-formaldehyde sulphoxalate, stand. cont., 125-250 lbs..lb. .19 - .23
Soda-sulphadiazin, USP, dms., works..lb.10.50 -10.60
Soda-sulphamerazin, dms., works. lb.10.50 -10.60
Soda-sulphapyridin, powd., bots., dms., works..lb. 5.00 - 5.15
Soda-sulphathiazole, USP, dms., works..lb. 3.00 - 3.15
Solvent naphtha, dms., wks..gal. tanks, E. of Omaha, frt. alld. gal. .28 - —
Minnequa, Colo.....gal. .28 - —
high-flash, dms., works....gal. .32 - —
tanks, frt. alld. E. of Omaha to 2c. to 5½c. per gal..gal. .27 - —
Sorbitol, com'l, dms., c.l., works. lb. .25½- —
l.c.l., works.....lb. .26 - .35
Soybean flour, industrial, bgs., c.l., dlvd. E. of Rockies..lb. .068 - —
truckloads, same basis..lb. .070 - —
small lots, same basis..lb. .072 - —
Protein, bgs., 40,000 lbs., works. lb. .23½- —
20,000 lbs., works.....lb. .25¾- —
smaller lots, works.....lb. .26 - .29½
Spearmint leaves, bls.....lb. .48 - .49
Spikenard root, bls.....lb. .50 - .55
Spruce extract, liq., reg., tanks, works .lb. .01¾- —
pwd., super, bgs., c.l., wks.lb. .05¼- —
Squaw vine, bls.....lb. .53 - .55

Squill, red, fortified, powd., bbls., bxs..lb. 1.00 - —
White, bls.....lb. .10 - .12
powd., bbls., bxs.....lb. .16 - .20
St. Ignatius beans, bgs.....lb. No stocks
St. John's bread, edible, bls...lb. .12 - .18
Starch, corn, pearl, bgs., c.l.... 100 lbs. 4.99 - —
l.c.l. .....100 lbs. 5.12 - —
Chicago, c.l. .....100 lbs. 4.52 - —
powd., bgs., c.l.....100 lbs. 5.08 - —
l.c.l. .....100 lbs. 5.23 - —
Chicago, c.l. .....100 lbs. 4.63 - —
Cornstarch prices above are for paper bags; cotton bags are 20c. higher.
Potato, bgs., c.l.....lb. .08¾- —
l.c.l. .....lb. .09¼- —
Rice, bgs., c.l..... .....lb. No stocks
Sweetpotato, bgs.....lb. No stocks
Wheat, bgs.....lb. .0660- .0850
Stavesacre seed, bgs.....lb. .60 - .61
Stearin, oleo (see Oleostearin).
Stillingia root, bls.....lb. .45 - .50
Stoneroot, bls.....lb. .07½- .08
Storax, cs.....lb. 1.00 - 1.10
Stramonium leaves, bgs.....lb. .20 - .25
seed, bgs.....lb. .20 - .21
Streptomycin, hospitals.....gram. 4.00 - —
wholesalers .....gram. 3.20 - —
Strontium bromide, NF, cns., dms..cs. .50 - .55
Carbonate, 90%, bbls.....lb. .14 - .16
98%, bbls.....lb. .23 - .25
Chloride, tech., bbls.....lb. .22 - .24
mesh 90%, bbls., works.ton.58.00 - —
Chromate, bbls., kgs., Phila.lb. .40 - .42
Iodide, jars, 25 lbs.....lb. 3.00 - 3.06
Lactate, dms.....lb. 1.30 - 1.35
Nitrate, bbls., c.l., works...lb. .07¾- —
l.c.l., works.....lb. .08¼- .08¾
Oxalate, bbls., works.....lb. .38 - .40
Salicylate, NF, dms.....lb. 1.25 - 1.32
Sulphate, nat., air-floated, 325 mesh, 90%, bbls., works.ton.58.00 - —



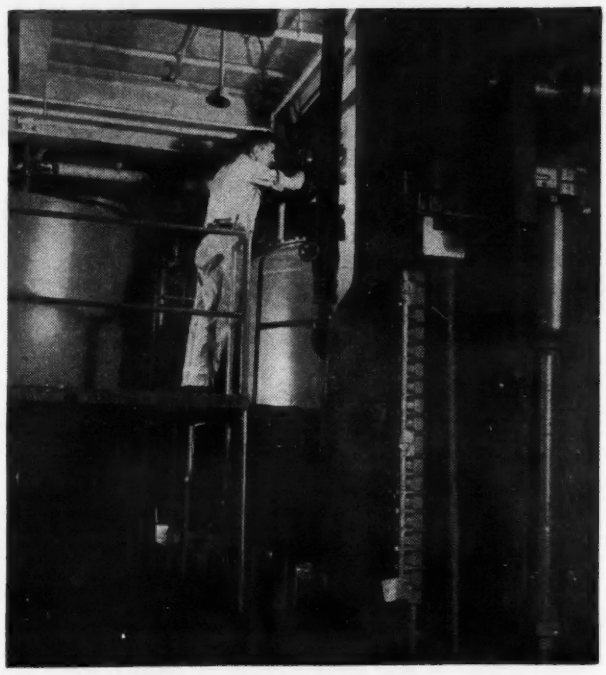
Strontium-calcium sulphide, phosphorescent, dms., works..lb. 2.50 - 2.85
Strophanthin, bots.....oz.30.00 -50.00
Strophanthus seed, Kombe, bgs. lb. 2.25 - 2.30
Strychnine, NF, powd., cns., 100 ozs..oz. 1.25 - —
Sulphate, USP, powd., cns., 100 ozs..oz. 1.60 - —
Styrolyl acetate, bots.....lb. 2.50 - 3.10
Sucrose octa-acetate, denat., bbls., l.c.l., works..lb. .50 - —
tech., bbls., l.c.l., works..lb. .45 - —
Sugar coloring (see Caramel coloring).
Sugar of milk (see Milk sugar).
Sulphadiazine, USP, dms., works. lb. 9.00 - 9.10
Sulphaguanidin, dms., works..lb. 4.50 - 4.60
Sulphamerazin, dms., works..lb. 9.00 - 9.10
Sulphanilamide, USP, powd., bots., works..lb. 1.05 - 1.10
Sulphanilamide, 30-60 mesh, 10c. higher.
Sulphapyridin, powd., bots., tins, works..lb. 5.00 - 5.15
Sulphathiazole, USP, powd., dms., works..lb. 3.00 - 3.15
Sulphonethylmethane, kgs.....lb. 6.75 - 6.85
Sulphonmethane, kgs.....lb. 5.25 - 5.35
Sulphur, crude, c.l., bulk, mines, contract..long ton.16.00 - —
vessels, Gulf ports, contract..long tons.17.50 - —
export .....long ton.20.00 - —
flour, comm'l, 99½%, bgs., c.l., works..100 lbs. 1.80 - —
l.c.l., works.....100 lbs. 2.15 - —
precipitated, USP, bbls., kgs.lb. .18 - .30
Refined, flour, extra fine, bgs., c.l., works..100 lbs. 3.15 - —
l.c.l., works.....100 lbs. 3.50 - 3.90
heavy, bags, c.l., works.... 100 lbs. 2.85 - —
l.c.l., works.....100 lbs. 3.20 - 3.60
light, bgs., c.l., works.... 100 lbs. 2.95 - —
l.c.l., works.....100 lbs. 3.30 - 3.60
Sulphur, refined, flowers, USP, bgs., c.l., works..100 lbs. 3.30 - —
l.c.l., works.....100 lbs. 3.65 - —
Refined sulphur flowers in bbls., 35c. higher.
rock bbls., c.l., works..100 lbs. 2.45 - —
l.c.l., works.....100 lbs. 2.80 - —
roll, bbls., c.l., works.100 lbs. 2.65 - —
l.c.l., works.....100 lbs. 3.00 - 3.40
rubbermakers' bgs., c.l., wks. 100 lbs. 2.15 - 2.60
Sulphur chloride, 25-gal., dms., c.l., works..lb. .03 - .03½
l.c.l., works .....lb. .04 - .04½
10-gal. dms., c.l., works..lb. .07 - .07½
l.c.l., works.....lb. .08 - .08½
Dioxide, liquid, com'l, cyls., c.l., works..lb. .085 - —
l.c.l. .....lb. .095 - —
multi-unit cars, works..lb. .06 - —
tanks, works .....lb. .044 - —
refrigeration, cyls., l.c.l., works..lb. — - —
Iodide, bots, jars.....lb. 3.90 - 4.11
Sumac Bark, grd., ex dock..ton.105.00 - —
Extract, No. 1, bbls.....lb. .10½- —
No. 2, bbls.....lb. .09 - —
crystals, bbls. .....lb. .40 - —
stainless, bbls. .....lb. .11 - .13½
Leaves, ex dock.....ton.105.00 - —
Superphosphate, pulverized, run-of-pile under 22% a.p.a. Balto..unit-ton. .74 - —
Florida .....unit-ton. .56 - .59
others .....unit-ton. .57 - .59
Delivery points, Ariz., Calif., Colo., Ida., Kans., Nev., N. M., Ore., Utah, Wash., 88½c., per unit-ton plus frt. charges from Anaconda, Mont., in excess of $8.03 per ton; guaranteed 18, 19 or 20% a.p.a., ½c. per unit-ton higher.
Superphosphate, triple, 48% or more a.p.a., bulk, producing point, Florida unit-ton. .71 - —
South Carolina..unit-ton. .75 - —
Tennessee .....unit-ton. .80 - —
Other States and D.C., 71c. per unit ton plus frt. charges for 47% from E. Tampa, Fla.
Superphosphate, gran., 2c. per unit-ton higher than pulverized.
Sweet basil, bls.....lb. 1.10 - 1.25

T

Talc, dom., ordinary, grd., bgs., c.l., works..ton.14.50 -24.50
l.c.l., works.....ton.16.50 -30.00
Calif., bgs., c.l., wks..ton.22.00 -30.00
Pennsylvania, bgs., c.l., works..ton.11.00 -13.50
l.c.l., works .....ton.12.00 -14.50
Vermont, bgs., c.l., works, ton.14.00 - —
l.c.l., works .....ton.17.50 - —
New York, bgs., works..ton.18.00 - —
fibrous, grd., off-color, New York, bgs., c.l., works, ton.15.00 - —
325 mesh, 93-94%, bgs., c.l., works..ton.17.50 -18.00
99.85-99.95%, bgs., c.l., works..ton. No prices.
98-99.5%, bgs., c.l., works, ton. No prices
imp., Canada, bgs., c.l.....ton.35.00 -45.00
Tallow, inedible, extra, loose..lb. .12¾- —
fancy, loose .....lb. .13 - —
special, loose .....lb. .12½- —
sulphonated, 25%, dms.....lb. .07¾- .08
50%, dms. .....lb. .10¾- .11
Tamarind, bbls. .....lb. .12 - .12½
Tankage, animal, feed grade, 9-11% ammon., bulk, unit-ton. 7.00 - —
Chicago .....unit-ton. 7.00 - —
fert. grade, 9% ammon., 10% o.p.l., bulk..unit-ton. No stocks.
10-11% ammon., 15% b.p.l., bulk, Chicago..unit-ton. No stocks.
Tansy leaves, bls.....lb. .15 - .16
Tapioca flour, Brazilian, bgs..lb. .05¾- .10
Java, bgs. .....lb. No stocks.
Tar acid, oil, 15-18%, ret. dms., c.l., works..gal. .35 - —
l.c.l., works .....gal. .38 - —
25%, dms., c.l., works..gal. .41 - —
l.c.l., works.....gal. .44 - —
Tar, pine (see Pinetar).
Tara pods, c.l., ex dock U. S. ports..long ton. No prices
powd., c.l., same basis..long ton.225.00 - —
Tarragon herb, bgs.....lb. .58 - .60
Leaves, bgs. .....lb. 1.20 - 1.25
Tartar emetic, tech., gran., or powd., bbls., kgs..lb. .41 - —
dms. .....lb. .41½- .44
USP, powd., bbls., dms., kgs. lb. .45 - .48
Terpin hydrate, com'l, bbls., c.l., lb. .24½- —
l.c.l. .....lb. .25 - .25½
USP, cryst., bbls., dms...lb. .70 - .75
powd., bbls., dms.....lb. .75 - .80
Terpineol, Alpha (see A).
com'l, dms., c.l., South.....lb. .13½- —
l.c.l., South .....lb. .14 - —
tanks, South .....lb. .13 - —
pure, dms. .....lb. .43 - .56
extra, dms. .....lb. .52 - .71
Terpinglycol ether, dms. (extra), c.l., works..lb. .19½- —
l.c.l., works .....lb. .20 - —
tanks, works .....lb. .19 - —
Terpinyl acetate, extra, cns., dms. lb. .80 - 1.10
prime, cns., dms.....lb. .70 - 1.08
Terra alba (see Gypsum).
Tetrachloroethane, dms., works, lb. .08 - .08½
Tetrachloroethylene, NF VI 55-gal. dms., works..lb. .20 - .21½
smaller dms., works.....lb. .23½- .25
tech. (see Perchloroethylene).
Tetraethyl orthosilicate, dms., works..lb. .65 - —
Tetrapotassium phosphate (see Potash phosphate).
Tetrasodium pyrophosphate (see Soda pyrophosphate).
Thallium sulphate, 99%, bots., works..lb.20.00 - —
Theobromine, dms., 25-lb. lots.lb. 3.75 - —
smaller lots.....lb. 3.95 - 4.10
Thiamine hydrochloride, dms., 100 grams or more..kilo.160.00 - —
Thiocarbanilide, dms. .....lb. .24 - —
Thiouracil, dms., works.....lb. 5.50 - 5.60
Thiourea, CP, dms.....lb. .55 - .56
Thorium nitrate, cs., works..lb. 2.00 -
Thyme, French, bgs.....lb. .16 - .16½
futures, bgs. .....lb. .15½- .16
Spanish, bls.....lb. .11½- .12
Thymol, NF, cns.....lb. No prices
Iodide, NF, dms.....lb. 4.25 - —
Timbo root (see Cube root).
Tin crystals, bgs., bbls., works. lb. .55 - .60
Metal .....lb. .80 - —
Bolivian .....lb. .80 - —
Straits .....lb. .80 - —
Oxide, bbls.....lb. .82 - —
Tin, tetrachloride, anhydr., dms., works..lb. No stocks
Titanium dioxide, anatase, chalk resistant, bgs., c.l., divd..lb. .16½- —
l.c.l., divd. .....lb. .17½- —
rutile, nonchalking, bgs., c.l., divd., E..lb. .18½- —
l.c.l., divd. .....lb. .19½- —
plain, bgs., c.l., divd.....lb. .16½- —
l.c.l., divd. .....lb. .17½- —
Hydride, cns., works.....lb. 7.00 - 8.00
Pigment, barium base, bgs., c.l., divd..lb. .06½- —
l.c.l., divd. .....lb. .07 - —
Calcium base, bgs., c.l., divd. lb. .06¼- —
l.c.l., divd. .....lb. .06¾- —
Calcium-rutile base, bgs., c.l., divd..lb. .06¼- —
l.c.l., divd. .....lb. .06¾- .06¾
Magnesium base, c.l., divd.lb. No prices
l.c.l., divd. .....lb. No prices
Titanium dioxide and pigment in bbls., ¼c. higher; Pac. coast, c.l., divd., l.c.l., ex whse., ½c. higher.
Tetrachloride, CP, 55-gal. dms., works..lb. .55 - —
smaller pkgs., works....lb. .65 - 1.22
technical, 55-gal. dms., works lb. .82 - —
smaller pkgs., works.....lb. .40 - 1.00
Tolu balsam, cns.....lb. 3.45 - 3.65
Toluol (toluene) 2°, indust., ret. dms., works..gal. .28 - —
tanks, E. of Omaha, frt. alld. gal. .23 - —
West Minnequa, Colo...gal. .23 - —
Prices on toluol from petroleum, tanks delivered (maximum freight allowance in parentheses), are:—Ark., 23c.; Chicago, 23c. (2¾c.); Del.-Md.-D. C., 23c. (2¾c.); Detroit, 23c. (1 8/10c.); La., 23c.; N. E., 23c. (2¼c.); N. J., 23c.; N. Y., 23c.; N. C., 25c. (5c.); Pa., 23c. (2¾c.); S. C. 25c. (5c.); Tenn., 23c. (3¾c.); Va., 24c. (3½c.); W. Va., 23c. (2¾c.).
1°, nitration, ret. dms., works. gal. .28 - —
tanks, E. of Omaha, frt. alld. gal. .23 - —
West Minnequa, Colo...gal. .23 - —
Toluene (see Toluol).
Toluidin base, distilled, kgs...lb. 1.00 - —
Tonga, 50% bark and vine, bbls. lb. .90 - .91
Tonka beans, Angostura, cks..lb. 1.70 - 1.80
Brazilian, Surinam, cs.....lb. .85 - .90
Totaquine, USP XII, 100-oz lots. oz. .82 - —
Triacetin, dms., works.....lb. .26 - —
Triamylamine, dms., c.l., works. lb. .98 - —
l.c.l. .....lb. 1.01 - —
Tributyl citrate, dms.....lb. .41 - .49
smaller pkgs.....lb. .52 - —
Phosphate, dms., l.c.l., frt. alld. E. of Rockies..lb. .72 - —
Tributylamine, dms., c.l., works lb. .78 - —
l.c.l., works.....lb. .81 - —
Trichlorobenzene dms., c.l., wks. lb. .11 - —
l.c.l., frt. alld.....lb. .12 - —
Trichloroethane, dms., c.l., works. lb. .15 - —
l.c.l., works.....lb. .17 - —
Trichloroethylene, dms., c.l., Zone 1, works, frt. alld..lb. .06 - —
Zone 2, frt. alld.....lb. .06½- —
Zone 3, frt. alld.....lb. .09 - —
Zone 4, ex whse.....lb. .09 - —
Trichloroethylene, l.c.l. prices ½c. high. Zones are—(1) Conn., Del., Ill., Ind., Ia Ky., Me., Md., Mass., Mich., Minn., Mo N. J., N. Y., N. C., Ohio., Pa., R. I., Tenn Vt., Va., W. V., Wis., Omaha, K. C., Kan (2) Ala., Ark., Fla., Ga., Kan., La., Miss. Neb., N. D., Okla., S. C., S. D.; (3) Col. Mont. (E), N. M., Tex., Wyo.; (4) Ariz., Cal. Idaho, Mont. (W), Nev., Ore., Utah, Wash

IN NOPCO'S NEW VITAMIN A AND D CONCENTRATION PLANT — YOUR "A AND D" PROBLEMS ARE BEING SOLVED

Nopco's new Vitamin A and D Concentration Plant, at Harrison, N. J., is stainless steel, throughout. Completely enclosed system, capable of operation entirely under gas. Contains unique equipment, specially designed by experienced Nopco engineers, to produce fish liver oil concentrates of continuously improving quality.



ARE THESE YOUR VITAMIN A AND D PROBLEMS?

Blandness?—So-called "taste extinction" tests, involving dilution with bland vegetable oil to the point where flavor disappears, no longer give reproducible results on Nopco's Vitamin A Concentrate, since flavor is so slight in the undiluted product.

High Potency? Nopco Vitamin A Concentrates are 1,000,000 A/gram or higher. "Natural" D concentrates routinely available up to 350,000 D/gram. Irradiated Ergosterol available in potencies to 3,000,000 D/gram.

Unusual "A and D" Blends With such high potency concentrates available, Nopco can ship your "A and D" requirements already *blended*, in *one* product, at almost any practical A/D ratio you may need. Let Nopco perform this valuable, time-saving blending operation for you. Whatever your Vitamin A and D problem may be, try Nopco for a wholly satisfactory answer. Send for complete details to Special Markets Department, Nopco Chemical Company, Harrison, N. J.

Nopco's Complete "A and D line" includes

- Vitamin A—in fish liver oil blends or concentrates
- Vitamin D Concentrate from Fish Liver Oil
- Irradiated Ergosterol—potencies up to 3,000,000 U.S.P. units per gram
- Combinations of Vitamin A with "Natural" D or D_2.

NOPCO CHEMICAL COMPANY
Formerly National Oil Products Co.
HARRISON, NEW JERSEY
Boston • Cedartown, Ga. • Chicago • Richmond, Calif.

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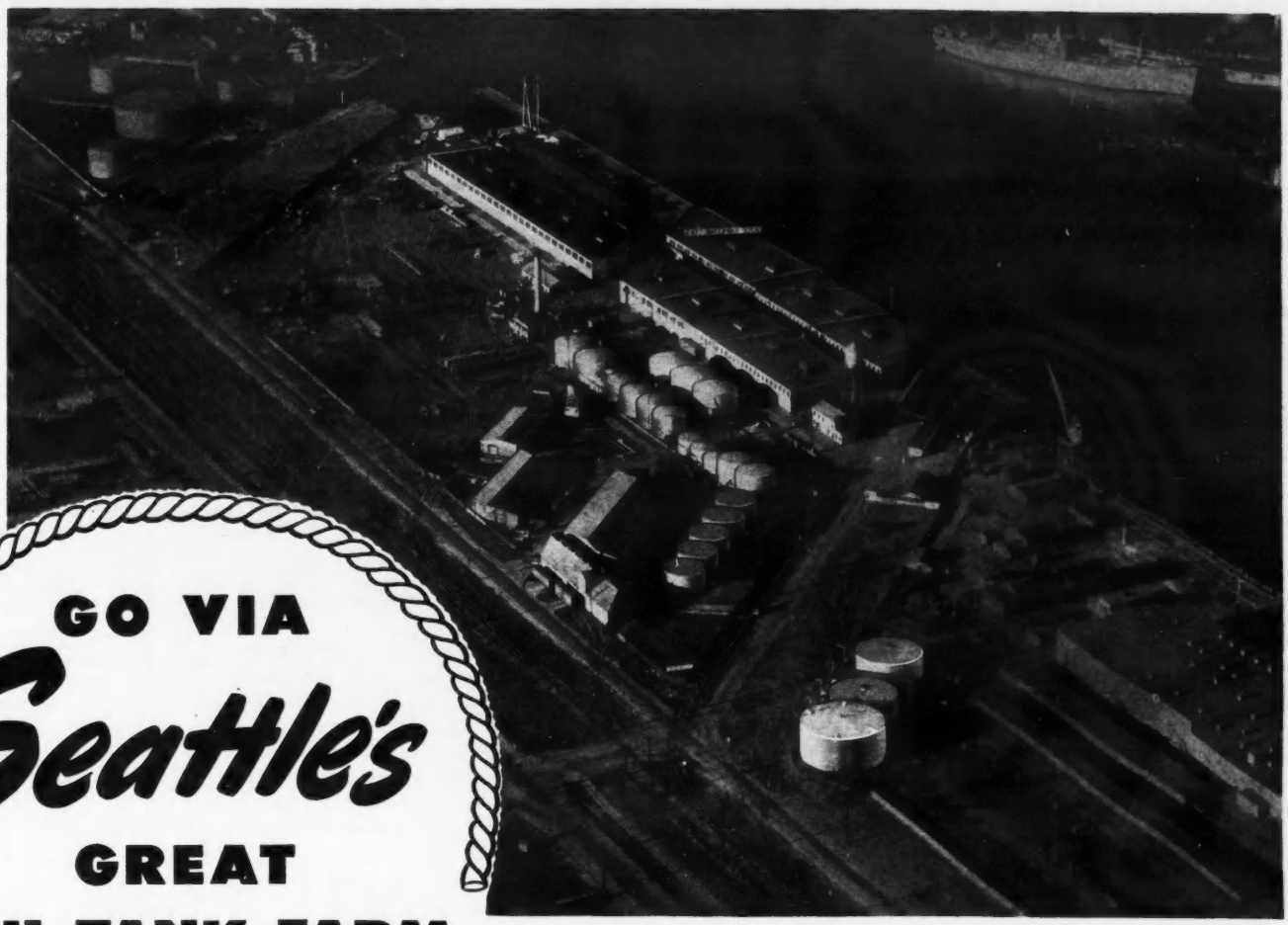
Pioneer producers of *natural* Vitamin A and Vitamin D, Vitab Rice Bran Concentrate and Calcium Pantothenate.

NOPCO — EVOLVED THRU RESEARCH

Profitable Oil Imports



Aerial view of huge Oil Tank Farm section of Port of Seattle's 23-acre East Waterway Dock terminal facilities.

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HERE is the strategic port of entry and chief depository for commercial, edible and pharmaceutical import oils. TUNG from China. COCONUT OIL from Philippines and Indies. FISH OILS—herring, halibut, tuna, and high potency soupfin shark vitamin oils from the North Pacific. A network of 25 huge, specially designed tanks, with total capacity of 4,800,000 gallons, with every modern facility for temperature-piping from ships. Through these facilities tremendous quantities of fish oils and vitamin oils are processed for shipment.

STRATEGIC—BY SEA—BY AIR

The Expanding
PORT OF SEATTLE

E. H. SAVAGE, Pres. • H. P. CHAPMAN, Vice-Pres. • J. A. EARLEY, Secy.
COL. W. D. LAMPORT, Gen. Mgr.

55%

OF AMERICA'S ENTIRE SUPPLY OF

VITAMIN OILS

with annual valuation of approximately

$10,000,000

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MAIL COUPON—for any specific information desired

PORT OF SEATTLE COMMISSION

Bell Street Terminal • Seattle 1, Washington

Please send the undersigned, information on

(specify).....

Name.....

Address.....

City.....

PS 1-47 OPDR

Tricresyl phosphate, coaltar base, dms., c.l., dlvd..lb. .33 - —
l.c.l., dlvd.....lb. .33½- —
tanks, dlvd.....lb. .32 - —
petroleum base, dms., c.l., dlvd..lb. .37 - —
l.c.l., same basis.....lb. .37½- —
tanks, same basis.....lb. .36 - —
Triethanolamine, dms., c.l., frt. alld. in E..lb. .19½- —
l.c.l., same basis.....lb. .20½- —
tanks, same basis.....lb. .18½- —
Triethyl phosphate, cns.....lb. .40 - —
Triethylamine, dms., c.l., works, basis 100%..lb. .34 - —
l.c.l., works, basis 100%..lb. .36 - —
tanks, works, basis 100%....lb. .30 - —
Triethyleneglycol, dms., c.l., frt. alld. in E..lb. .18½- —
l.c.l., same basis.....lb. .19½- —
tanks, same basis.....lb. .17½- —
Trimethylamine, anhydrous, cyl., works, frt. alld. E. of Miss., 100% basis..lb. .35 - —
solution, dms., c.l., frt. alld. E. of Miss., 100% basis..lb. .35 - —
Triphenyl phosphate, bbls., c.l., frt. alld..lb. .26 - —
l.c.l., same basis.....lb. .27 - —
Tripoli, air-floated, bgs., c.l., works..ton.21.50 - —
double-grd., bgs., c.l., works.. ton.17.50 - —
once-grd., bgs., c.l., works.ton.16.00 - —
Trisodium phosphate (see Soda phosphate tribasic).
Tuba root (see Cube root).
Tungsten metal, powd., 99.9+%, dms., works..lb. 2.65 Nom.
Oxide kgs., same basis.....lb. 4.75 Nom.
Turmeric root, Alleppey, bls., futures..lb. .20½- .21
powd., bbls. .....lb. .27 - .28
Haitian, bls.....lb. .15½- .16
Jamaica, futures, bls.....lb. .15 - .15½
Madras, bgs. .....lb. .18 - .18½
Turpentine, gum (see Naval Stores, Protective Coatings market).
wood, d.d., dms. extra, c.l., works, South..gal. .61 - —
l.c.l., same basis.....gal. .62 - —
tanks, wks., South.....gal. .55 - —
steam-dist., l.c.l., dms., incl., East..gal. .81 - .85
tanks, South .....gal. .60 - —
Sulphate, ret. dms., East..gal. .75 - .80

U

Unicorn root, false (see Helonias root).
True (see Aletris root).
Uranium, oxide, black, bgs..lb. 2.85 - —
yellow, kgs.....lb. 1.65 - —
Urea, dom., 46% N., bgs., c.l., works or ship, pts..ton.73.00 - —
l.c.l., ship, pts.....ton.75.50 -80.50
fertilizer comp., 42% N., bulk c.l., works or Atlantic or Gulf ports..ton.57.40 - —
fixed ammonia content, usual Atlantic and Gulf ports, NH_3..ton.116.80 - —
Urea-ammonia liquor (A and B), free ammonia content, Belle, W. Va., freight equalized with Hopewell, Va..ton.59.00 - —
Urea-ammonia liquor, fixed ammonia content, Belle, W. Va., freight equalized with Hopewell, Va., NH_3 ton.112.80 - —

C and D prices for Urea-ammonia liquor are $1.20 per ton of nitrogen higher than the A and B respectively for the same destinations.

Uva ursi leaves, bls.....lb. .15 - .16

V

Valerian root, Belgian, NF, bls. lb. .56 - .58
Indian, bls. .....lb. .40 - .41
Valonia, beards, bgs., ex dock, ton.68.00 -70.00
Cups, bgs., ex dock.....ton.55.00 -56.00
Extract, powder, bgs., ex dock, lb. .11825- —
Vanadium pentoxide, CP, bgs., cns, works..lb. 7.00 - —
tech., dms., works.....lb. 1.10 - —
Vanilla beans, Bourbon, tins..lb. 7.75 - 8.50
Mexican, cuts, tins.....lb. 9.50 -10.00
whole, tins.....lb.10.50 11.00
Tahiti, tins .....lb. 4.00 - 4.25
Vanillin, ex eugenol, tins, 25 lbs. or more..lb. 4.50 - —
smaller lots, tins.....lb. 4.55 - 4.65
ex guaicol, tins, 25 lbs. or more. lb. 3.00 - —
smaller lots tins.....lb. 3.05 - 3.15
ex lignin, tins, 25 lbs. or more, lb. 3.00 - —
smaller lots tins.....lb. 3.05 - 3.15
Venice turpentine, artif., cns..lb. .24 - .25
Verdigris, bbls., bgs.....lb. .22 - .28
Vinyl acetate, cbys., works....lb. .25 - —
dms., c.l., works.....lb. .15½- —
l.c.l., works .....lb. .16½- —
tanks, works .....lb. .14 - —
Vinyl ether, bots., 75 c.c., less 20% and 20%..bot. 1.50 - —
50 c.c., same basis....bot. 1.05 - —
25 c.c., same basis....bot. .65 - —
Trichloride (see Trichloroethane).
Viosterol, bots., 100 billion USP units..mil. units. .04 - —
1 billion USP units.mil. units. .05 - —
100 million USP units..mlb. units. .07 - —
Vinylpyridin, ret. dms., works.lb. 1.50 - —
Vitamin A (see Oils, codliver, fishliver)
A concentrate, dms., works.. mill. units. .40 - .45
B (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B complex, natural (see Rice Bran and Yeast).
B_2 (see Pyridoxin).
C (see Acid, ascorbic).
D (see Oils, codliver, and fishliver, calciferol, and Viosterol).
D_2 (see Calciferol).
E (see Alphatocopherol and oil, wheatgerm).
G (see Riboflavin).
P-F (see Acid, nicotinic, and Nicotinamide).
Violet, methyl, toner (see M).
V.M.P. naphtha (see Petroleum naphtha).

W

Wahoo, root bark, bls.....lb. 1.30 - 1.35
tree bark, bls.....lb. .45 - .50
Wattle bark, merchantable bags, f.a.s..ton.64.00 -65.00
fair average, bgs., f.a.s.. ton.66.00 -67.00
extract, liquid, 35% tannin, bbls., works..lb. .06 - .07
tanks, works.....lb. .05½- .06¼
solid, E. Afr., 61% tannin, in bond, ex dock..lb. .06⅝- —
S. Afr., 62% tannin, ex dock, in bond..lb. .07 - —
Wattle extract prices based on $20 freight and $1.00 insurance per long ton.
Wax, amorphous (see Wax, microcrystalline).
Bayberry, bgs. .....lb. No stocks.
Bees, bleached, USP, white, bricks, cakes, cs..lb. .70 - .71
slabs, bgs. .....lb. .69 - .70
crude, African, bgs.....lb. .55 - .56
Western hemisphere, bgs.lb. .55 - .56
refined, yellow, bricks, bgs.lb. .62 - .63
slabs, bgs. .....lb. .61 - .62
Candelilla, crude, bgs.....lb. .74 - .75
refined, bgs. .....lb. .77 - .78

Powdered, candelilla, 20 mesh, 5c. per lb. extra, 80 mesh, 5½c.; 100-200 mesh, 6c.

Carnauba, chalky, No. 3, bgs., ton lots..lb. .80 - .82
North Country, No. 2, bgs., ton lots..lb. .95 - 1.00
No. 3, bgs., ton lots.....lb. .85 - .90
refined, bgs., ton lots.....lb. .95 - 1.00
yellow, No. 1, bgs., ton lots, lb. 1.10 - 1.15
No. 2, bgs., ton lots.....lb. 1.08 - 1.13

Powdered carnauba prices, same differentials as powdered candelilla.

Ceresin, dom., 132°-136° m.p., bgs..lb. .16 - .16½
138°-140° m.p., bgs.....lb. .18 - .18½
158°-162° m.p., bgs.....lb. .20½- .21
Japan, bgs. .....lb. .35 - .38
Microcrystalline, 170°-175° m.p., A.S.T.M., amber, ctns., 30 tons yearly contract, group 3, works..lb. .16 - —
smaller lots, same basis, lb. .16 - .17½
170°-175°, black, ctns., 30 tons, same basis..lb. .14½- —
smaller lots, same basis.lb. .14½- .15½
white, ctns., 80 tons, same basis..lb. .27 - —
smaller lots, same basis.. lb. .27 - .29
190°-195° m.p., ASTM, amber, ctns., 30 tons, same basis..lb. .18 - —
smaller lots, same basis. lb. .18 - .19
190°-195° m.p., ASTM, black, ctns., 30 tons, same basis lb. .16½- —
smaller ctns., same basis. lb. .16½- .17½
white, ctns., 30 tons, same basis..lb. .31 - —
smaller lots, same basis. lb. .31 - .32
Montan, crude, bgs.....lb. .50 - .52
Ouricury, crude, bgs., ton lots. lb. .53 - .55
refined, bgs., ton lots.....lb. .60 - .61
Ozokerite, dom., 180-190 F., c.l. lb. .36 - —
182-184 F., bgs., c.l.....lb. .31 - —
182-183 F., bgs., c.l.....lb. .27 - —
Spermaceti, blocks, cs.....lb. .45 - .50
cakes, cs.....lb. .46 - .51
White lead (see Lead, white).
White, precipitate, powd., dms., 50 lbs. or more..lb. 2.27 - —
White pine bark, rossed, bls..lb. .21 - .25
Whiting, limestone, dry-grd., 325 mesh, bgs., 40 tons, works, St. Louis..ton. 9.50 - —
smaller lots, works, St. Louis..ton.12.50 - —
wet-grd., air-floated, 325 mesh, 99½%, bgs., c.l..ton.14.50 -27.50
200 mesh, 99¾%, bgs., c.l. ton. No prices
90%, bgs., c.l.....ton. No prices
water-floated, extra, gilders, bgs., c.l..ton.14.50 -28.00
gilders, bgs., c.l.....ton. No prices
putty grade, bgs., c.l..ton.13.00 - —
surface treated, bgs., c.l., Ohio, works..ton.30.00 - —
Paris, white, bgs., c.l.....ton.25.00 -31.00
l.c.l. .....ton.25.00 -29.00
precipitated, bgs., c.l.....ton.14.00 -15.00
l.c.l. .....ton.18.00 -20.00
Wild cherry bark, thick, bls..lb. .06 - .07
thin, natural, bgs.....lb. .18 - .20
rossed, green, bls.....lb. .24 - .26
Wild indigo root, bls.....lb. .30 - .31
Witch hazel leaves, bls.....lb. .26 - .27
Witherite (see Barium carbonate, natural).
Woodflour, 40 mesh, bulk, c.l., N. Tonawanda, N. Y..ton. No prices
60 mesh, same basis.....ton. No prices
80 mesh, same basis.....ton. No prices
100 mesh, same basis.....ton. No prices

Woodflour, in bags, 25c. each extra, returnable.

Wormseed, American, bgs....lb. .17 - .18
Levant, bgs.....lb. 4.25 - 4.90
Wormwood, bls.....lb. .50 - .60

X

Xanthorrhiza, bls.....lb. .28 - .30
Xylidin, mixed, dms.....lb. .33 - .33¼
Xylene (see Xylol).
Xylol (xylene), indust., ret. dms., works..gal. .26 - —
tanks, E. of Omaha, frt. alld. gal. .23 - —
West Minnequa, Colo..gal. .23 - —

Prices on xylol from petroleum, tanks, delivered (maximum freight allowance in parentheses), are:—Ark., 23c.; Del.-Md.-D. C., 23c. (2¾c.); Detroit, 23c. (1 8/10c.); La., 23c.; N. E., 23c. (2¼c.); N. J., 23c.; N. Y., 23c.; N. C., 23c. (5c.); Pa., 23c. (2¾c.); S. C. 25c. (5c.); Tenn. 23c. (3¾c.); Va., 24c. (3½c.); W. Va., 23c. (2¾c.); the Chicago price is 20c. f.o.b. terminal.

1925 — 1927 — 1929 — 1934 — 1936 — 1938 — 1941 — 1943 — 1827 — 1860 — 1880 — 1900 — 1905 — 1910 — 1915 — 1920 — 1923

Highlights of 1900 Paint Progress

No. 4 of a series

THE TUNG OIL—ESTER GUM REVOLUTION

Around the turn of this century, tung oil and ester gum cooked up in varnish kettles a revolution as far-reaching in that art as was the adoption of zinc oxide in paint-making two generations previously.

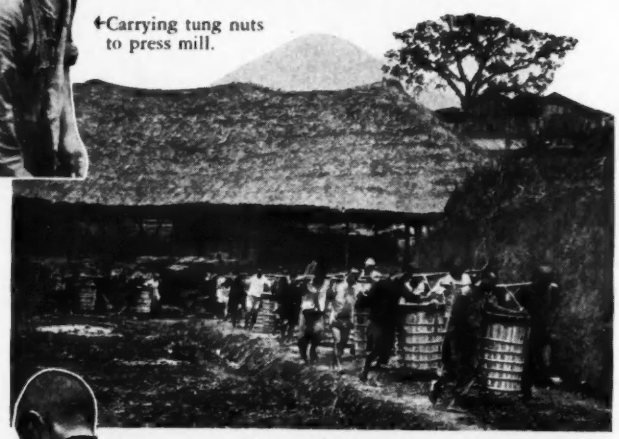
Since the start of varnish-making in America in the early 1800's, linseed oil and hard fossil resins had been essential ingredients of quality products. The use of tung oil, which started in 1869, remained small due to its temperamental cooking properties.

By the beginning of the 20th Century, the supply of the harder fossil resins—Congo, East India, Kauri, Zanzibar—was diminishing and the price was spiraling upward. Then skilled varnish craftsmen, in search of new sources for raw materials, discovered how to control tung oil with the aid of lowly rosin to turn out quality varnishes. They obtained still better results by esterifying rosin with glycerine to produce ester gum—the first man-made varnish resin.

Tung oil-ester gum varnishes surpassed those of linseed oil and fossil resins for many uses as they were quicker drying, tougher, more resistant to water and weather, as well as less expensive. Also, grinding vehicles based on ester gum and tung oil (with or without linseed) made possible new types of paints and enamels which broadened the scope of the ready-mixed paint industry.

←Gathering "fruit" from tung trees.

←Carrying tung nuts to press mill.



Pouring tung oil into river oil barge. ↓

Transporting tung oil from press mill.

1848-1948

Partners in Paint Progress

In the early 1900's The New Jersey Zinc Company began the manufacture of lithopone—then in its infancy in America. That pigment was destined to play a vital role in the success of paints and enamels based on tung oil and ester gum vehicles.

The Paint Industry — New Jersey Zinc

THE NEW JERSEY ZINC COMPANY
Established 1848
160 Front Street, New York 7, N. Y

Xylol (xylene), 10°, ret. dms., works	gal.	.30 - —
tanks, E. of Omaha, frt. alld.	gal.	.25 - .26
5°, ret. dms., works	gal.	.33 - —
tanks, E. of Omaha, frt. alld.	gal.	.33 - —
8°, ret. dms., works	gal.	.43 - —
tanks, E. of Omaha, frt. alld.	gal.	.38 - —

Y

Yara yara, cryst., bots., cns.	lb.	1.62 - 1.75
Yeast, brewer's dry, 50 B units, dms.	lb.	.35 - —
90 B units, dms.	lb.	.45 - —
200 B units, dms.	lb.	.60 - —
300 B units, dms.	lb.	.90 - —
Yellow, barium chromate, CP, bgs., l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss. R., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul.	lb.	.32 - —

Barium chromate yellow price differentials in other States and city zones are those for chrome yellow below.

Benzidin, bbls., dlvd.	lb.	1.60 - —
Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies.	lb.	2.40 - —
Lithopone, all shades, bbls., frt. alld. E. of Rockies.	lb.	.35 - —

Los Angeles and San Francisco, ex whse. 1c. per lb. higher.

Chrome, CP, bbls., dlvd. N. Tenn. and N. C., E. of Miss. R., includ. Davenport, Minneapolis, Rock Island, St. Louis, St. Paul, contracts.	lb.	.24 - —

Chrome, CP, bbls., dlvd. Ala., Fla., Ga., La. (Shreveport), 1¼c. higher; Miss., N. C., S. C., Tenn., Dallas, Tex. 1¼c. higher; Ft. Worth, Tex., 1¾c. higher; El Paso, Tex., 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Dutch, pink, bbls.	lb.	.09 - .11
Hansa, bbls., same basis as chrome	lb.	1.43 - —
primrose, bbls., same basis.	lb.	1.60 - —
Bethlehem, Easton, Pa.,	lb.	.04¼- —
l.c.l., same basis	lb.	.06 - —
synthetic, bbls., c.l., works,	lb.	.07½- —
l.c.l., works	lb.	.07½- —
Mercury oxide, bbls., 1,000 lbs.	lb.	2.23 - —
smaller lots	lb.	2.25 - —
Ocher, American, golden, bbls., works	lb.	.04½- .06¼
Iron oxide, nat., bbls., c.l., yellow, bgs., works	lb.	.02¾- .03¾
French type, bgs., c.l.	lb.	.03¾- —
l.c.l.	lb.	.04 - —
Persian orange (see O).		
Zinc, bbls., same basis as chrome	lb.	.17½- —
Navy spec. type bbls., contract	lb.	.19 - —
Yellow dock root, bls.	lb.	.29 - .30
Yellow xanthorrhiza (see Xanthorrhiza).		
Yarba santa leaves, bls.	lb.	.30 - .31
Yohimbine hydrochloride, vls.	oz.	3.25 - 4.00

Z

Zein, bgs., 1,000 lbs., works	lb.	.25 - —
smaller lots, bgs.	lb.	.30 - —
Zinc acetate, tech., bbls., c.l.	lb.	.20 - —
USP, bbls.	lb.	.26 - .27
kgs.	lb.	.27 - .29
Arsenite bgs., c.l., frt. alld. E. of Rockies.	lb.	No stocks
l.c.l., same basis	lb.	No stocks
Carbonate, tech., rubbermakers' grade, bbls., works.	lb.	.10¾- .11¾
USP, precip., powd., bbls.	lb.	.35 - —
dms.	lb.	.40 - —
kgs.	lb.	.37 - —
Chloride, tech., fused, dms., c.l., works.	100 lbs.	6.25 - —
l.c.l., works.	100 lbs.	6.55 - —
gran., bbls., c.l., works...	100 lbs.	7.00 - —
l.c.l., works.	100 lbs.	7.40 - —
solution, 50%, dms., c.l., works.	lb.	.0365- —
l.c.l., works.	lb.	.0425- —
tanks, works.	lb.	.0300- —
USP, dms.	lb.	.30 - .31
jars.	lb.	.35 - .36
Chromate (see Yellow, zinc).		
Cyanide, kgs., works.	lb.	.34 - .35
Dust, bbls., c.l., dlvd.	lb.	.1250- .1200
l.c.l.	lb.	.12¾- .13
Fluoride, bbls., works.	lb.	.18 - .19
Hydrosulphite, dms., works.	lb.	.16 - —
	lb.	.16 - —
Iodide, NF, jars.	lb.	4.65 - —
Laurate, bbls.	lb.	.32 - .33
Naphthenates, 8% Zn, liquid, dms.	lb.	.19¾- —
10% Zn. liquid, dms.	lb.	.24 - —
14% Zn. solid, dms.	lb.	.31¾- —

Trade Briefs

Sun Oil Company, Philadelphia, has appointed James C. Tilley as office manager of the company's New York regional headquarters. Mr. Tilley, who joined the company in 1937, was, most recently, acting district manager in Hackensack, N. J.

Gulf Oil Corporation, Pittsburgh, has published a brochure, entitled "Better Lubricants for Industry Through Research," showing, by means of photographs, its research program for developing improved industrial lubricants. The booklet may be obtained from Gulf at 3800 Gulf building, Pittsburgh 30, Pa.

Gilley Oil & Refining Co., Betsy Lane, Ky., suffered a loss of between $40,000 and $65,000 when its building was destroyed in a recent fire.

Oil production in Romania during the first quarter of 1947 totaled 922,000 metric tons, compared with 1,055,240 tons for the corresponding period last year. Exports for the three-month period dropped to 433,118 tons from 560,614 tons in 1946.

Zinc oxide, pigment, dom., acicular, bgs., c.l., f.o.b. ship't point, frt. alld.	lb.	.09½- —
l.c.l., works	lb.	.09¾- —
American process, com'l, lead-free, bgs., c.l., f.o.b. ship't point, frt. alld.	lb.	.09½- —
l.c.l., works.	lb.	.09¾- —
leaded, 5%, bgs., c.l., f.o.b. ship't point, frt. alld.	lb.	.09½- —
l.c.l., works.	lb.	.09¾- —
35% or more, bgs., c.l., f.o.b. ship't point, frt. alld.	lb.	.11½- —
l.c.l., works.	lb.	.11¾- —
50%, bgs., c.l., f.o.b. ship't point, frt. alld.	lb.	.12¾- —
l.c.l., works.	lb.	.13¾- —
French process, com'l, lead-free, bgs., c.l., f.o.b. ship't point, frt. alld.	lb.	.11¾- —
l.c.l., works.	lb.	.12 - —
green seal, bgs., c.l., f.o.b. ship't point, frt. alld.	lb.	.11¾- —
l.c.l., works.	lb.	.11½- —
white seal, bgs., c.l., f.o.b. ship't point, frt. alld.	lb.	.11¾- —
l.c.l., works.	lb.	.12 - —
red seal, bgs., c.l., f.o.b. ship't point, frt. alld.	lb.	.10¾- —
l.c.l., works.	lb.	.11 - —
USP, ctns., c.l., f.o.b. ship't point, frt. alld.	lb.	.12¾- —

Zinc oxide Pac. Coast prices ½c. higher; bbls. prices ¼c. higher than bgs.

Zinc resinate, fused, 9% Zn, powd., dms.	lb.	.19½- —
Silicofluoride, bbls.	lb.	.15 - .16
Stearate, USP, ctns., 2,000 lbs. to c.l.	lb.	.50 - —
smaller lots.	lb.	.51 - —
Sulphate, cryst., 22% Zn, bgs., c.l., works, frt. alld.	100 lbs.	4.15 - —
l.c.l., same basis.	100 lbs.	4.90 - —
flake, 25½% Zn., bgs., c.l., same basis.	100 lbs.	4.80 - —
l.c.l., same basis.	100 lbs.	5.55 - —
powd., 36% Zn., bgs., c.l., same basis.	100 lbs.	6.75 - —
l.c.l., same basis.	100 lbs.	7.50 - —
Zinc sulphate in bbls., 40c. higher.		
Sulphide, pure, bgs., c.l., dlvd.	lb.	.10 - —
l.c.l., works.	lb.	.10¼- —
barium pigment, works, bgs., c.l., dlvd.	lb.	.07 - —
l.c.l., works	lb.	.07¼- —
Calcium pigment, works, bgs., c.l., dlvd.	lb.	.07 - —
l.c.l., works	lb.	.07¼- —
Fluorescent pigment, works, frt. alld.	lb.	1.00 - 3.00
Magnesium pigment, bgs., c.l., dlvd.	lb.	.07 - —
l.c.l., dlvd.	lb.	.07¼- —
Zinc sulphide and pigment, Pac. coast prices ½c. higher; bbl. prices ¼c. higher than bgs.		
Sulphocarbolate, NF, gran., bbls., dms.	lb.	.26 - .30
Sulphoxylate, formaldehyde, basic, dms., works., frt. alld.	lb.	.17 - —
normal, dms., works, frt. alld.	lb.	.35 - —
Yellow (see Yellow, zinc).		

Zinc-ammonia chloride, bbls., c.l., works.	100 lbs.	7.15 - —
l.c.l., works.	100 lbs.	7.55 - —
Zinc-cadmium sulphide, fluorescent, cns., works, frt. alld.	lb.	2.00 - 2.80
Zinc-iron oxide pigment, bgs., c.l., dlvd.	lb.	.07¾- —
l.c.l., dlvd. E. of Rockies.	lb.	.08¼- —
Pac. cst	lb.	.08½- —
sx whse., Pac. cst.	lb.	.08¾- —
Zirconium acetate, solution, bbls., works—lb.		.25½- —
Hydride, cns., works.	lb.	7.00 - 8.00
Nitrate, bgs., works.	lb.	3.00 - 4.00
Oxide, 99%, grd., bbls., c.l., works.	lb.	.22½- —
l.c.l.	lb.	.22¾- —
white, 98½%-99%, grd., bgs., works.	lb.	.30 - —
milled, electric, fused, 2,000-9,999 lbs., works.	lb.	.46 - —
500 lbs. and less, same basis.	lb.	.46½- .49
Oxychlorides, cryst., bbls., 5 tons, works.	lb.	29¼- —
Sulphate, basic, cake, bbls., c.l., works.	lb.	.18 - —
l.c.l., works.	lb.	.18½- .20
smaller lots, works.	lb.	.30 - .31½

Synthetic Resins

The customary monthly listing of prices for synthetic resins and other branded paint materials was printed in the May 5 issue of OPD.

BEMIS minute movies

for Shippers
who want to save
time and money

"The Reform of the Rebellious Powder"

Scenario: A certain Powdered Pigment is full of good qualities but has one bad habit. Wrong handling makes our hero's one weakness show up. He likes to escape and become unconventionally messy, costing money at home and on the way to work. This fellow needs a little discipline! He's always breaking out of ordinary containers, causing complaints. Can he be reformed? Well...

Happy Ending: He meets a strong, dependable, economical container — Bemis Waterproof Laminated Textile Bags. Now our rebellious powder behaves perfectly. He has overcome his only fault. Everybody likes him, and he gives much credit for his popularity to puncture-resistant, siftproof Bemis Waterproof Bags.

PRE-TESTS STOP PROTESTS! Bemis Waterproof Laminated Textile Bags head off complaints because they are tested *before* they are put to work. Their strength and tear-resistant, puncture-resistant qualities are preproved for you. And their economy is attested by thousands of users.

This Bemis Waterproof Bag is light in weight, yet is the strongest shipping bag made. It protects both ways — what's inside the bag and what's outside, too. It assures low-cost protection against sifting, breakage, change in moisture content, escape or absorption of odors, and many other common shipping complaints. A Bemis Waterproof Bag can be made acid-, oil-, or grease-resistant. It's ideal for LCL and export shipments. It saves on container costs and, empty or filled, it saves storage space and freight costs.

If the *exact* Waterproof Bag you need doesn't exist, the Bemis Shipping Research Laboratory will design it for you.

Write today for a copy of "Seven Facts About Low-Cost Protective Packaging"

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WATERPROOF DEPARTMENT
408-A PINE ST. ST. LOUIS 2, MO.
Plants and Offices in 33 Principal Cities

OPD—5-26-1947 40

Oil, Paint and Drug Reporter

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Health Needs of the Nation

There is some soundness in the refusal of Congress to enter upon consideration, at the request of the President, of legislation to provide a plan or scheme of national health insurance. The soundness does not, however, lie in the excuse that Congress is overcrowded with work: if the Federal lawmakers had not been so reluctant, even averse, to going through with the jobs they have to do, their programs would have been completed weeks ago.

More desirable than hasty legislative enactment in the customary poorly considered manner is the proposal that a congressional committee spend the rest of this year in a study of the health needs of the nation. Of course, it does not follow that such an investigation would lead to anything worthwhile, but it is one that Congress well would undertake.

There is a deal of confusion everywhere as to what are the health needs of the nation and how their remedying should be undertaken. There is a world of difference between health insurance and medical care. The popular idea of health insurance is the same as that of life insurance—it becomes effective when health is lost. That is the wrong road to the remedying of the health needs of the nation. The right one is the providing of such education, common facilities, and medical advice and attention as will assure the health of the people. Any effective system of health insurance, in the proper, not the popular, sense of the term, must be in much the larger part preventive.

A spokesman for dictatorial organized medicine has criticized the President's request for health insurance legislation as inept and ignorant of the handwriting on the wall. The aptness of that criticism depends on what wall is looked at. Those who look at all walls can see that organized labor is going to substitute enforced negotiations for strikes, especially if Congress puts some sort of taboo on the latter. It is well known that welfare schemes will be prominent agenda for such negotiations, and that health insurance is a big part of such schemes. The resulting further discrimination is not desirable. It must also be seen on the walls that the United Nations has contracted to share the cost of medical and hospital care of its employees. No particular gift of clairvoyance is needed to see which one of the "Big" four, or three, or two, of UN will claim credit for that provision—and get it. So there is a political, as well as a social, handwriting to be read—and understood.

There are many things which Congress must see and appraise in its study of the national medical needs and their remedying. Not the least significant of these is the startlingly illuminating commentary on the public-relations ethics of the medical profession so frequently iterated by its spokesmen, who declare that the medical service of the public under any governmental health insurance scheme will be quite low in quality. The charge of materialism recently made by a medical educator is not without foundation in fact.

New York's Dock Faults

It is to be hoped that the disclosure of grafting and profiteering in connection with the operation of docks at the harbor of New York, now being investigated, will provide the additional pressure apparently needed to break the indifference and stagnation which have been driving shipping to other ports and driving New York business concerns to distraction. It is common talk that it takes three times as much money and four times as much time to load or receive goods at New York as it does at any other port.

Several reasons for this disadvantage are generally stated. One is that the piers are obsolescent in capacity and equipment. Another is that the approaches to the piers are woefully inadequate with respect to modern trucking practice. This piles up heavy costs of waiting time, for which truckers charge; it also lets goods pile up on the piers, which brings heavy demurrage charges. Labor conditions also are said to contribute to the costliness in time and money of moving goods at New York piers. The inadequacy there is partly numerical and partly productive.

New York business concerns have long been complaining of the cost and difficulty of handling goods at the docks. Their complaints have led the municipal marine department to work out a plan of modernization. But, the city administration is not convinced that the job belongs to it, although the piers are its property. There have been declarations that the Federal government should replace and repair the facilities worn out by war traffic. It is sometimes argued that the shipping companies should make the piers what they ought to be. Until the blow-up over the past week or so, there were no signs that anybody was going to do anything. Even the recognized fact that shipping was going to other ports did not suffice to get the matter budgetary consideration.

It must be admitted that it would be very difficult to find men and materials for anything like a speedy modernization of New York's docking facilities. But, a start can be made on long-range rehabilitation and expansion. Recent developments make it opportune that business organizations redouble their efforts for that objective.

Washington Talks It Over

—*Continued from page 5*

limited personnel and now with the cut in appropriations in prospect, the department can be expected to drop further behind in this work.

The drug and toiletries industries are two industries in particular which will feel the effect of the reduction of this work. They have gone into the export business in a big way. In 1939 they only exported 3½ percent of production, but in 1946 overseas sales amounted to 9 percent of production or approximately $200,000,000. Some, although by no means all, of the increase can be credited to the efforts of the department.

What is equally disturbing to some officials about the whole situation is that if the United States gets into a depression, this information which the department is gathering on foreign markets will become of paramount importance. In fact there are some in industry who say that we have already started in a depression. One big plastic producer told some of his friends recently that he is thankful today that last year he decided to get into the export market. It is the only thing today that is enabling his department to keep its head above water.

Foreign Trade Service

Senator Owen Brewster, of Maine, is opening up an old sore between the State and Commerce departments over the question of controls of our commercial attaches abroad. When Cordell Hull was Secretary of State he prevailed upon the President to transfer these attaches to his department, arguing that too often there were conflicts between our commercial and diplomatic policies.

Senator Brewster isn't necessarily urging the return of these attaches to the Commerce department, but he does think that, if the State department soon does not give more attention to the commercial side of our foreign affairs, these attaches should be put under some department or agency which will make greater use of their talents.

The tendency to minimize the importance of commercial functions, to assign commercial activities to the lowest-paid members of the embassy staffs, must cease, he says. Market surveys and economic analysis of conditions in foreign countries are highly important functions and should have primary attention by the foreign service. An alert foreign service, constantly watching for opportunities to expand our foreign trade, can do a great deal to equalize our international balance of payments.

Motor-Fuel Use Boomed

After four war years of gasoline rationing, 1946 was the first full year that people could get out on the road and travel again without worrying whether they would have enough coupons to get back. And from figures compiled by the Public Roads Administration it is evident that they gave full vent to this renewed pleasure.

According to the agency, the amount of fuel consumed by motor vehicles operated on highways last year reached an all-time record—25,868,000,000 gallons, an increase of 6,528,000,000 gallons over 1945, or approximately 33 percent. With the high wartime earnings still jingling in their pockets, the increased prices of gasoline and higher taxes were no deterrent to the travel-minded. They paid in State taxes alone, $1,065,681,000 for the privilege of touring the byways.

Most of the gasoline consumption occurred in California where the volume was up 34.6 percent over 1945. New York was second; Pennsylvania was third; and Texas, fourth. The greatest percent increase was in Nevada where consumption went up 48.6 percent over 1945.

Soybean Widely Popular

The soybean, a crop from the Orient, has made such a good name for itself in the United States that it is attracting worldwide attention.

Twenty foreign countries were represented by the fifty scientists, business men, and government officials who journeyed during the past two years to the USDA Plant Industry Station at Beltsville, Md., to confer with W. J. Morse, head of soybean investigations. Some of these visitors remained for a year and traveled all over the country to study production, processing, and other phases of the soybean industry.

During the past three years, Mr. Morse has filled around 160 requests from other parts of the world for soybean breeding strains. Some of the requests have even come from the Orient where the seed is needed to replace stocks seriously depleted and in some cases lost during the war.

Tobacco Suckering Scheme

Growth-regulating chemicals may be the answer to the tobacco-raisers' desire for less handwork in the production of tobacco so that more time may be devoted to other crops. Scientists of the Department of Agriculture are making field tests this year on the use of growth-regulating chemicals to find out if their greenhouse experiments are as successful as they have appeared to be.

To get a good leaf yield, the tobacco farmer tops the plant at the flowering stage. Then he must go over the crop three or four times during the growing season and pinch off the suckers that topping causes to grow at the base of the leaves. The synthetic growth-regulating chemicals being experimented with by the department are a substitute for the hand suckering.

The chemical is being tried in both liquid and powder form, applied to the cut surface where the top is removed. Results indicate that, under greenhouse conditions, one application to the cut surface at the time the plant is topped will retard the growth of the suckers. Studies have not yet been completed to determine the effect on the quality of the tobacco which is an all-important consideration under present market conditions.

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Standard practice in the production of riboflavin at Chas. Pfizer & Co., Inc. includes strict control of output with insistence upon product purity and product uniformity. Playing important roles in this are biologists, bacteriologists and other highly-trained scientific and technical personnel. As with other major vitamins and in the specialized production of antibiotics, this policy is but an extension of the Pfizer policy of combining large scale production with a thorough maintenance of uniformly high quality. Production practice today and a reputation based upon yesterday and today — these are good reasons why manufacturers "turn first to Pfizer" for riboflavin — and for each of more than a hundred other chemicals. Chas. Pfizer & Co., Inc., 81 Maiden Lane, New York 7, N. Y.; 444 West Grand Ave., Chicago 10, Ill.; 605 Third Street, San Francisco, Calif.

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- Acid Ascorbic U.S.P.
- Calcium Pantothenate Dextrorotatory
- Niacin (Nicotinic Acid) U.S.P.
- Niacinamide (Nicotinamide) U.S.P.
- Pyridoxine Hydrochloride (Vitamin B_6)
- Thiamine Hydrochloride U.S.P.

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Heavy Chemicals

Buying interest did not appear as active in industrial chemicals in the closing stages as at the beginning of the month. Aside from the alkali group, there was a more definite tendency to limit operations to actual requirements and keep inventories down. Curtailment of activities in woolen mills and in some other branches of the textile industry has been reflected in a lessening of inquiry from that source, but there was no appreciable relaxation of demand for contract shipments from other major consuming industries. Some new production of liquid caustic soda is expected to reach the market within the next three months. While this should increase distribution later in the year, there is no indication of nearby easement in buying conditions. Chlorine production has been held down by the continual shortage of tankcars. Magnesite was priced higher for both calcimed and dead-burnt varieties. Advances were also noted in barium hydroxide, copper nitrate and rubbermakers' zinc carbonate. The chlorates have played a dual role, potash remaining in free supply and soda exceedingly tight. Nickel cyanide is available for prompt shipment and is said to have experienced some competition from substitute products. More seasonal weather has increased the demand for copper sulphate. Small lot trading has featured zinc sulphate with aggregate sales showing improvement. Nickel sulphate has not been a problem for buyers throughout the month.

Sulphuric acid, the leading inorganic chemical in volume and dollar value, was produced in March at a daily average rate about 4 percent above February and 24 percent above March, 1946, according to statistics compiled by the Bureau of the Census. Chlorine and the alkalies, calcium carbide and compressed gases, and the majority of the phosphatic materials also recorded greater output this year than in 1946. The chromium chemicals were the only group produced below last year's level.

Canadian exports of chemicals in March were valued at $7,378,000. The largest item was fertilizers amounting to $3,603,000. For the same month last year the total value was $5,634,000.

Paper production as a percentage of six-day capacity was 105.3 in the week ending May 17 according to the American Paper and Pulp Association. This compares with 107.9 the previous week and 98.3 percent a year ago.

Production figures appearing below unless otherwise designated are from the Bureau of the Census, Department of Commerce.

Ammonia, Synthetic Anhydrous—March production registered 95,859 tons or more than double that of a year ago. The output for February was revised to 85,663 tons and that for March, 1946, was 44,271 tons.

Arsenic—Definitely tight under the maintenance of heavy demand from the insecticide and glass industries. Arrivals of 333 barrels were noted from Gothenburg last week.

Barium Hydroxide—Higher prices have been named for this material in barrels. The market is quoted at 19c. per pound works.

Calcium Carbide — Production of commercial amounted to 52,466 tons in March, compared with 45,411 tons in the preceding month and 44,460 tons in March, 1946. Official advices from Buenos Aires state that a resolution has been issued by the Secretary of Industry and Commerce, stating that imports of calcium carbide have been limited to a quota of 11,000,000 kilos for the current year. This quota will be distributed equitably among the established importers of this product and will definitely expire on December 31, 1947.

Calcium Phosphate—Monobasic output was up to 6,999,000 pounds in March, against 5,794,000 pounds in the preceding month and 6,610,000 pounds in March of last year. Production of dibasic showed 5,128,000 pounds in March, compared with 6,076,000 pounds in February and 7,233,000 pounds in March, 1946.

Carbon Dioxide—Liquid and gas production in March registered 15,704,000 pounds, compared with 14,019,000 pounds in February and 17,623,000 pounds in March, 1946. Output of solid, dry ice, amounted to 46,740,000 pounds in March, compared with 35,839,000 pounds in the preceding month and 47,714,000 pounds in March of last year.

Carbon Tetrachloride—Supply conditions have not shown any important improvement during the past month. Some of the largest producers are considerably behind contract schedules and are employing the allocation method to equalize distribution. Demand has continued active and prices while firm are unchanged.

Chlorine—Market conditions have continued tight throughout the past month under a demand that was sustained at a relatively high level. No material improvement in the supply of cylinders or tankcars was reported and the shortage has caused some irregularity in shipments from works. Production of chlorine gas increased in March to a total of 117,039 tons, compared with 101,717 tons in the preceding month and 96,439 tons in March, 1946.

Copper Hydrate—Production has improved sufficiently during the past month to level off demand. The market at present is not in free supply but limited quantities were available for prompt shipment at former prices.

Copper Nitrate—This material is priced higher and it looked as though stocks made before the metal advanced have been worked off. Suppliers quote 200-pound fiber drums at 25c. to 28c. per pound works, according to quantity.

Copper Oxylchloride Sulphate—Commanding seasonal attention for fungicide requirements. Stocks not free but available for prompt shipment at former price levels.

Copper Sulphate — More seasonal weather has stimulated the demand for agriculture and producers have experienced a sort of rush for immediate shipments. Trucks and trailers have been employed to move this material in many instances and, while all requirements have not been satisfied immediately, it is stated there is enough stock avoidable to meet all current wants. Export demand has increased, particularly from Central and South America. Domestic producers have taken a fair amount of business but are meeting spirited competition from British manufacturers.

Fluorspar — Buying interest has been active enough to create a stronger tone to the market. Producers reported no change in quotations but admitted the market was firm at current prices.

Glauber's Salt—Continued firm and tight under a steady demand. Some pick-up in production was noted in March. Total output was 19,152 tons, compared with 16,433 tons in the preceding month and 13,655 tons for March of last year.

Iron Acetate—Prompt shipments of this material in liquid form are available. Demand was reported about normal with the fur and wool dyers showing interest. Suppliers quote the 28 degree test at 9c. per pound in

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Barium hydroxide, 4c. per lb.
Copper nitrate, 5½c. per lb.
Magnesite, $1.25 per ton.
dead-burnt, $2 per ton.
Zinc carbonate, rubbermakers' grade, 1c. per lb.

Prices Reduced

None

Comparative Price Indexes

General Chemicals

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
199.0	199.0	199.0	168.5

Acids

Last week.	Prev. week.	Last month.	Last year.
119.3	119.3	119.1	116.0

(For Current Prices see Page 9)

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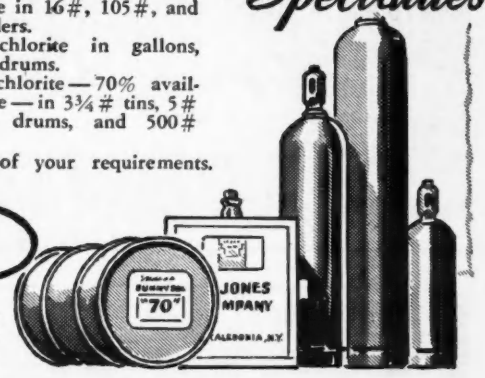

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carlots, and at 9¾c. per pound in smaller quantities f.o.b. the works.

Magnesite—Higher prices for calcined produced in bags are noted. The market is quoted on the basis of $60.00 per ton for carlot shipments f.o.b. California mines. Dead-burnt in bulk is also higher at $24.00 per ton for carlot shipments from Chewelah, Washington. An importation of 1,000 bags of magnesite from India was recorded last week.

Nickel Cyanide—Now available in 100-pound lots for immediate shipment at $1.75 to $2.00 per pound.

Soda Ash—Definitely short but experiencing a better distribution to the consuming industries, possibly on account of the allotment of more boxcars. Freer distribution and the growing disposition of purchasing agents to deal with recognized suppliers have been reflected in lower resale prices. March production of light ash amounted to 184,018 tons, compared with 167,838 tons in February and 183,038 tons in March a year ago. Output of dense ash in March was 142,184 tons, against 129,155 tons in the preceding month and 140,500 tons in March, 1946. Production of natural was 23,071 tons in March; 18,612 tons in February, and a revised total of 15,971 tons in March last year.

Soda, Bicarbonate—Output gained in March with a total of 16,571 tons. Production in February was 15,329 tons. March output last year was 18,360 tons which was the peak monthly production for 1946.

Soda, Caustic—Increased production of liquid caustic soda is expected to reach the market within the next three months. This should increase distribution but until the heavy accumulated backlog orders are substantially reduced, there appears little prospect of improved buying conditions. According to trade reports, there has been a falling off of demand for both soda ash and caustic soda from the smaller manufacturers of cleansers many of whom have ceased operating since the first of the year. Production of liquid caustic soda by the electrolytic process amounted to 115,198 tons in March, against 96,730 tons in February and 93,335 tons in March 1946. Output of solid was 18,240 tons in March, 16,695 tons in February and 15,427 tons in March last year. Production of liquid caustic soda by the lime-soda process amounted to 64,202 tons in March, 60,050 tons in February and 66,674 tons in March 1946. Output of solid registered 20,057 tons in March, 18,395 tons in the preceding month and 19,365 tons in March 1946. Interstate Commerce Commission has taken action to force railroads to unload caustic soda promptly. At New Orleans recently, a railroad holding two cars of caustic soda was directed to unload immediately.

Soda, Phosphate—Monobasic production in March registered 1,242 tons, against 1,278 tons in February and 985 tons in March 1946. Output of dibasic was 6,956 tons in March, compared with 6,034 tons in the preceding month and 5,974 tons in March of last year. Tribasic output in March showed 7,672 tons, against 6,600 tons in February and 9,165 tons in March 1946.

Soda, Silicate—March production was the largest recorded since last October. The total for liquid and solid amounted to 42,120 tons, against 35,884 tons in the preceding month and 32,182 tons for March of last year.

Zinc Carbonate—Rubber-makers' grade of basic zinc carbonate is priced higher. Suppliers quote 10¾c. per pound for 2,000 pounds or over, 11¼c. per pound for 1,000 pounds to 1,900 pounds and 11¾c. per pound for 100 to 900 pounds in barrels f.o.b. the works. Paper bags ¼c. per pound less.

Zinc Sulphate—More demand has developed for small quantities of this chemical. Inquiry has been for both agriculture and rayon requirements and combined sales have made a fairly sizable total. Present stocks have

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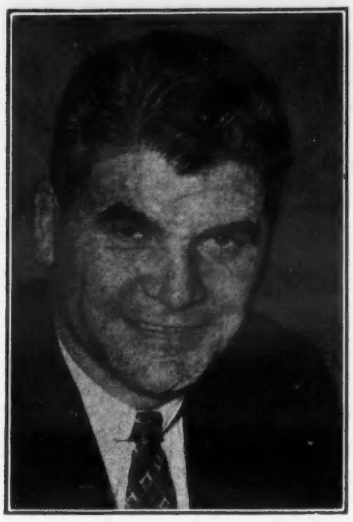

E. H. Bucy has been appointed general manager of the Cellulose products department in Stamford, Conn., of the Atlas Powder Company, Wilmington, Del. He succeeds J. J. Weidig, who resigned.

been able to meet requirements promptly.

Acids

Hydrofluoric — Highest production since September 1946 was registered in this acid in March. The total was 4,448,000 pounds, compared with 3,805,000 pounds in the preceding month and 3,131,000 pounds in March 1946.

Muriatic.— Output increased in March to 36,993 tons, compared with 33,966 tons in February and 26,805 tons in March of last year.

Nitric—Production has been steadily increasing during the past few months. March output was placed at 64,647 tons, against 62,193 tons in February and 30,899 tons in March of last year.

Oxalic — Serious shortage of stocks continues to exist in this market. Demand has exceeded production and it is stated that backlog orders are sufficient to keep the supply position tight well into the Fall months.

Phosphoric — March registered a total production of 89,517 tons. Of this amount 48,837 tons were made from phosphorus and 40,680 tons from phosphate rock. The total output in February was revised to 74,926 tons and in March, 1946, production amounted to 79,500 tons.

Sulphuric — New high production level for recent months was established in March. The total was up to 937,217 tons. The chamber process contributed 306,600 tons and the contact process 624,607 tons. Total output in February was 835,163 tons and 750,060 tons in March of last year.

Non-Ferrous Metals

Copper—Stocks of refined copper in the United States at the end of April amounted to 87,139 tons, an increase for the month of 5,398 tons. The figures include both foreign and domestic copper, the Copper Institute reports. Deliveries of copper during April are placed at 120,089 tons, a decrease of 3,501 tons compared with deliveries in March. Refined copper production in the United States from foreign as well as domestic ores totaled 107,270 tons. That compared with 88,131 tons of refined copper turned out from purely domestic ores the previous month. Foreign copper is now included because of suspension of the tariff of 4c. a pound.

Quicksilver—Prices were down $1 per flask, making the spot market $84 to $85 per flask and none too firm thereat. The European zone of quicksilver production and sales tends toward stabilization as the cartel perfects its organization and eliminates from the world markets competition between the Spanish and Italian producers. Control of the world markets is falling into the hands of a strong combine able to establish and enforce prices because of the absence of any important competitive factor in the meeting of world-wide requirements of this metal.

San Francisco, May 21.—Quicksilver prices dropped here this week. Buying interest was off. Producers were quoting metal between $83 and $84 per flask, f.o.b. San Francisco.

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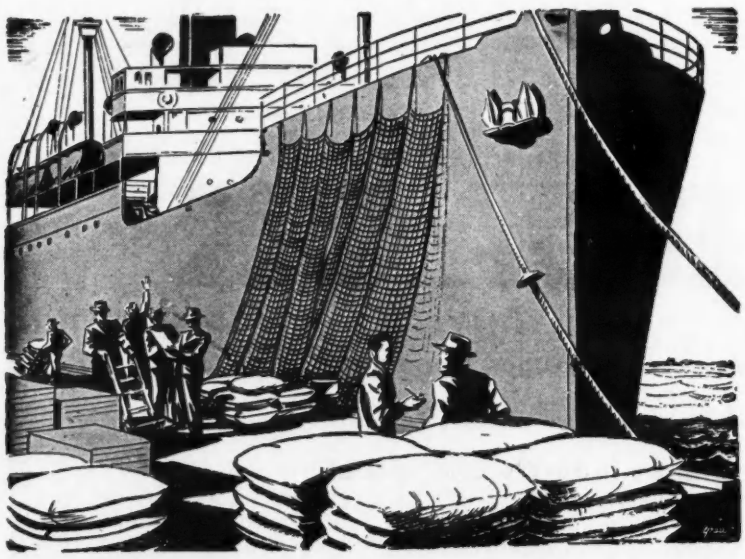

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Obituaries

Sir Thomas Holland

Sir Thomas Holland, eminent British geologist who directed the Geological Survey of India from 1903 to 1909, died May 17 at his home in England. He was seventy-eight years old.

His findings while directing the survey provided the basis of much of the development of India's industry. He also served as professor of geology and mineralogy in Manchester University, president of the Indian Munitions Board, rector of the Imperial College of Science and Technology, and vice-chancellor of the University of Edinburgh.

Sir Frederick Hopkins

Sir Frederick Gowland Hopkins, Nobel prize winner and discoverer of vitamins, died May 16 at Cambridge, England. He was eighty-five years old.

Sir Frederick became a professor of biochemistry at Cambridge University in 1914 and was knighted eleven years later. In 1929 he won the Nobel Prize in psychology and medicine.

The discoverer of vitamins A, B and D, Sir Frederick proved the importance of these vitamins to the system before their chemical compositions were determined.

The recipient of many honors, Sir Frederick was a fellow of Trinity College, served as president of the Royal Society and of the British Association for the Advancement of Science. He was an honorary fellow of Emmanuel College, and associate member of the Bavarian, Swedish and Norwegian Academies of Science. He was also a foreign member of the National Academy in Washington.

Retiring from the Sir William Dunn professorship in 1943 at the age of eighty-three, Sir Frederick attributed his durability to regular use of vitamins. He had also served in high councils of the British government and was an adviser to the Ministry of Health.

Amedeo Obici

Amedeo Obici, president of the Planters Nut & Chocolate Company, Planters Edible Oil Company, and the National Peanut Corporation, died May 21 at Mercy Hospital, Wilkes-Barre, Pa. He was seventy years old.

Born in Italy, Mr. Obici came to this country at the age of eleven and in his early youth launched the venture that was to result in his being known as the "Peanut King." From meager beginnings, his shrewdness built up the various companies to the point where last year they reported a combined sales volume of $60,000,000.

Dr. William H. Ross

Dr. William H. Ross, who retired December 31, 1945, as principal chemist in the division of soils, fertilizers and irrigation in the bureau of plant industry, soils and agricultural engineering of the Department of Agriculture, died May 16 in Washington. He was seventy-one years old.

Dr. Ross had been associated with the Department of Agriculture for thirty-three years when he retired. He was a member of the American Chemical Society, the American Association for the Advancement of Science, the American Institute of Chemists, the American Society of Agronomy, and a past president of the Association of Official Agricultural Chemists.

C.K. Weston

Charles K. Weston, founder of the public relations department of E. I. du Pont de Nemours & Co., died May 21 at Wilmington, Del. He was seventy-six years old. Before joining the du Pont organization in 1916, Mr. Weston was editor of the former Philadelphia Evening Public Ledger.

Walter W. Dredger, retired plant manager of the Phelps Dodge Refining Corporation, Long Island City, N. Y., died May 17 at his home in Lynbrook, L. I. He was sixty-seven years old.

E. T. Kirkland, president of Irwin, Neisler & Co., Decatur, Ill., died recently in that city. He was a member of the American Pharmaceutical Manufacturers' Association.

Col. W. J. L. Lyster, retired Army Medical Corps officer who was famed for his work in water purification, died May 20 at his home in Washington, D. C. He was seventy-seven years old. Col. Lyster invented the Lyster bag for water purification which is still standard equipment for Army troops in the field.

Eugene H. Milton, founder and chairman of the board of directors of the Milton Oil Company, St. Louis, died recently at his home in Sedalia, Mo. He was eighty-five years old.

Perry R. Richards, executive vice-president and treasurer of the Sun Chemical Corporation, New York, died May 21 at Bryn Mawr, Pa. He was sixty-six years old.

George H. Rowe, retired mining superintendent of the New Jersey Zinc Company, New York, died May 16 at his home in Franklin, N. J. He was seventy-eight years old.

Calco Names Loosli To Rubber Sales Dept.

Calco Chemical Division, American Cyanamid Company, Bound Brook, N. J., has appointed Alden R. Loosli assistant sales manager of its rubber chemicals department. Formerly connected with the intermediate sales department, Mr. Loosli has been with Calco since 1937.

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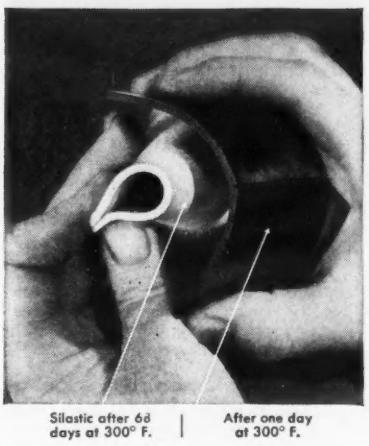

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This column of new data will give you a better idea of how heat-stable Silastic really is. You may remember a previous column giving brittle points ranging from −70 to −100° F. for the same Silastic stocks. It's more than a slogan—Silastic stays elastic in oven heat or arctic cold.

Effect of Aging at 300° F.

Test Sample	Weight Loss, %	Shrinkage, %	Decrease in Elasticity, %
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Synthetic Rubber[1] after 1 day	8.6	3.5	75

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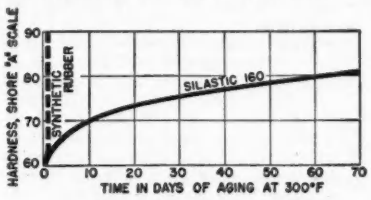
The increase in the hardness of Silastic 160 compared with one of the most heat resistant of the synthetic organic rubbers is shown in the graph below. Silastic is described in leaflet No. Z13-3



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Drug Law Guaranty

—Continued from page 3

rison Products, Hollywood, Cal., stating that no products thereafter shipped to the latter would be adulterated or misbranded within the meaning of the food, drug, and cosmetic act. February 24, 1945, while the guaranty was in full force and effect, defendant consigned to Richard Harrison Products, Hollywood, a shipment of vitamin products which were allegedly adulterated and misbranded, thereby making the guaranty false. Prior to and subsequent to the date of the shipment, Richard Harrison Products was engaged in the business of introducing and delivering for introduction into interstate commerce quantities of the vitamin product supplied by the defendant.

Associate Justice Murphy, who delivered the majority opinion, said that the food, drug, and cosmetic act rests upon the constitutional power resident in Congress to regulate interstate commerce and it is in that interstate setting that the various sections of the act must be viewed.

But, he added, section 301(h), which is section involved here, does not speak specifically in interstate terms. It prohibits the "giving of a guaranty or undertaking referred to in section 303(c)(2), which guaranty or undertaking is false," the only exception being as to a false guaranty given by a person who, in turn, relied upon a similar guaranty given by the person from whom he received in good faith the adulterated or misbranded article. Nothing on the face of the section limits its application to guaranties relating to articles introduced or delivered for introduction into interstate commerce. From all that appears, its proscription plainly extends to the giving of any false statutory guaranty, he said, without regard to the interstate or intrastate character of the shipment in question, to those who are engaged in the business of making interstate shipments.

Justice Murphy said that it was significant that section 301(h) had no counterpart in the food and drugs act of 1906. Under section 9 of that act a dealer could not be prosecuted for shipping adulterated or misbranded articles in interstate commerce if he had a guaranty of a type similar to that referred to in the present statute. If there were such a guaranty, the guarantor was subject to the penalties which would otherwise attach to the dealer. The result was that the guarantor was not liable on account of a false guaranty unless the dealer had shipped the prohibited article in interstate commerce. There was no liability for issuing a false guaranty as such to one engaged in an interstate business. In the 1938 act Congress added section 301(h) making the guarantor liable for giving a false guaranty. Justice Murphy said that it was not believed that Congress added the new section for the useless purpose of achieving the same result as had been reached under the 1906 act without such a provision.

In conclusion the majority decision read:—

We thus conclude that section 301 (h) definitely proscribes the giving of a false guaranty to one engaged wholly or partly in an interstate business irrespective of whether that guaranty leads in any particular instance to an illegal shipment in interstate commerce. Such a construction is entirely consistent with the interstate setting of the act. A manufacturer or processor ordinarily has no way of knowing whether a dealer, whose business includes making interstate sales, will redistribute a particular shipment in interstate or intrastate commerce. But if he guarantees that his product is not adulterated or misbranded within the meaning of the act, he clearly intends to assure the dealer that the latter may redistribute the product in interstate commerce without incurring any of the liabilities of the act. And the dealer is thereby more likely to engage in interstate distribution without making an independent check of the product. The possibility that a false guaranty may give rise to an illegal interstate shipment by such a dealer is strong enough to make reasonable the prohibition of all false guaranties to him, even though some of them may actually result only in intrastate distribution. By this means, some of the evils which Congress sought to eliminate are cut down at their source and the effectiveness of the act's enforcement is greatly enhanced.

So construed, section 301 (h) raises no constitutional difficulties. The commerce clause of the Constitution is not to be interpreted so as to deny to Congress the power to make effective its regulation of interstate commerce.

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ALBUMENS

Textile and Leather Chemicals

Prices of corn dextrin and starches were advanced 50 cents per 100 pounds by processors last Thursday.

Export inquiry for sizing materials continued active last week. Most of this business was transacted in resale starches which were offered more freely and readily taken for shipment to Europe at fractional declines from previous trading levels. Resale lots of cornstarch were more liberal and have been steadily increasing. Processors, however, are sold ahead and the capacity production continued to be taken on previous orders. Export demand for potato starch was active and unsatisfied, with domestic users also seeking sizable quantities for prompt requirements. Several mills still in operation were expected to shut down by the end of this month. Tapioca flour market was easier here and in Brazil. Offerings of new crop flour were freer at fractional reductions, with buyers' views as to prices still below shippers. Sage flour was quoted lower for shipment from primary markets, with buying interest slow. Wheat starch was in scarce supply and in good request for domestic account and for shipment abroad.

Tanners were reported to have sizable inventories of most tanning materials, with the exception of quebracho extract and wattle bark and extract and were not expected to show much interest in replacements during the next month or two. Inquiry for quebracho and wattle extract for nearby delivery continued keen, but business was limited, owing to the scarcity of offers from primary centers.

Argentine wool exports to the United States for the first five months of the 1946-47 season, October-February, amounted to 62,000,000 pounds, 65 percent below the record a year earlier, but nearly double the prewar total. Only 49 percent of the total exports were to the United States so far this season, compared with 83 percent, in the same period of 1945-46.

British government is continuing its policy of purchasing the domestic wool clip another year. This is to enable further time for consideration of long term plans for improving and marketing the domestic wool clip. Official announcement stated that every effort will be made to effect a permanent organization to handle all British wools beginning in 1948.

Chemicals

Bichromates—Production of soda bichromate and chromate was indicated at 7,129 short tons during March, compared with 5,954 tons in February and 7,777, tons in March 1946, by the Bureau of Census. Chromium chemicals were the only group of compounds produced below the 1946 rate. Market continued on a firm basis, consumers taking the output against former contracts. Prices were unchanged and well maintained.

Prussiates—Moderate quantities were absorbed on prior contracts, with most users limiting demand for prompt requirements. Prices were well held at former levels.

Soda Acetate—Light stocks continued to restrict business. Demand was fairly active. Market was firm at current quotations.

Soda, Hydrosulphite—Trading was spotty and confined to actual requirements. Withdrawals against former orders were in fair request. Prices were unchanged.

Sulphonated Oils—While sulphonated castor oil and tallow were in better supply, demand continued light and mainly for immediate needs. Quotations were unchanged at the recent decline.

Dyestuffs

Annatto Seed—This market was steady and reflected the strength at primary points. Offers for shipment were light and reported at about 19½c. per pound, f.o.b. Jamaica. Trading in the local market was dull confined to small lots.

Cochineal—Conditions in the market continued firm and with stocks scarce, quotations were strong and more or less nominal. Demand was slow in view of the prevailing high prices. Gray was nominally quoted at 67c. to 68c. and silver at 69c. to 70c. per pound.

Madder—Small lots were moving for immediate delivery. Prices were quoted at 29c. to 32c. per pound, on spot.

Market Trends

Prices Advanced

Corn, dextrin, 50c. per 100 lbs.
starch, 50c. per 100 lbs.
sugar, tanners, 50c. per 100 lbs.

Prices Reduced

Tapioca flour, 1¾c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
312.2	311.8	315.1	288.4

(For Current Prices see Page 9)

Sizing Materials

Albumen, Blood—This market was reported quiet, with consumers taking moderate quantities for immediate requirements. Stocks are in good supply and adequate to cover current demand. Prices were unchanged.

Albumen, Egg—Quiet demand was noted last week, with users purchasing in a hand to mouth manner. Market was unchanged with prices fairly steady for small lots, while carlot business could have shaded quotations. Sales were noted at $1.95 to $2 per pound for less than carlots, as to quantity. Technical grade inactive with good quality moving in a small way at $1.15 to $1.20 per pound as to seller. Production was reported limited and considerably below a year ago.

Dried egg stocks held by the United States in cold storage totaled 36,183 pounds, May 1, against 13,405 pounds, for the same time last year. Whole egg stocks were 35,585 pounds, compared with 13,128 pounds, a year ago; egg yolk, 519 pounds against 271 pounds; egg and albumen, 79 pounds against six pounds last year.

Dextrin, Corn—Consuming demand continued active and absorbed the production on prior orders. Export inquiry was also keen. Prices were increased 50c. per 100 pounds for all grades by processor.

Egg, Yolk—Trading was confined to actual needs. Market was steady for small quantities at $1.20 to $1.25 per pound, while this level could be shaded for carlots.

Sago Flour—Liberal offerings for shipment were noted at 7c. to 7¼c. per pound, c.i.f. New York, a reduction of ½c. per pound from recent offers. Buying interest was dull.

Starch, Corn—While the capacity production was absorbed against former contracts, fair-sized quantities of resale cornstarch was offered for prompt delivery. Domestic users and exporters purchased this material on the basis of 5½c. to 6c. per pound, carlots, as compared with several cents higher a few weeks ago. All grades were advanced 50c. per 100 pounds by processors.

Starch, Potato—Stocks were reported in limited supply and well held at former levels. Production has about ended for this season and mills still operating were expected to shut down by the end of the month. Demand was fairly active for domestic account, with sales noted at 8¾c. per pound, carlots, New York basis. Exporters were bidding at premiums, but trading was slow, owing to scarcity of supplies.

Starch, Wheat—Sales for export were reported at 8½c. per pound, carlots, a decline of ½c. below previous trading levels. Supplies were limited. Prices for domestic users were unchanged at 5.6c. per pound, carlots.

Tapioca Flour—Consumers continued to show little interest in shipment from Brazil at the current asking prices. Good quality flour was offered freely at 7c. to 7¼c. per pound, f.o.b. southern Brazil ports, with buyers' views around 6¾c. Light sales were reported at 5½c. per pound for A grade, f.o.b. northern Brazil. Buyers here were backing away and looking for lower prices. Trading in the local market were inactive and quotations were easier, ranging from 5¾c. to 10c. per

For Late Market Developments, See Page 4

pound, as to grade and seller. Imports totaled 4,330 bags at New York from Brazil last week, and were consigned against former contracts.

Tanning Materials

Chestnut Extract—Tanners were reported operating in a hand-to-mouth manner. Stocks were liberal and more than adequate to cover the current demand.

Divi-Divi—Moderate inquiry was in the market for prompt shipment from producing points. Trading was reported slow as offers for shipment were scarce. Quotations were unchanged and well held.

Gambier—This market was more active of late under increased offers for shipment. Plantations were quoted at 20c. to 22c. per pound, ex dock.

Mangrove Bark—Although trading was quiet, offers for shipment were maintained at former levels. Tanners showed little interest in replacements as yet and quotations were more or less nominal. Arrivals were reported at 1,210 bags at Philadelphia last week against former contracts.

Myrobalans—Conditions at primary centers were reported fairly steady. Consuming inquiry was slow, with quotations unchanged and well held. Good quality J1 was quoted at $47 per ton, ex dock, and J2 at $43. Poor quality was available at $2 to $3 per ton less.

Quebracho Extract—Tanners showed a good inquiry for replacements, but with offers for shipment scarce trading was light and spasmodic. Solid ordinary was quoted nominally at 9¼c. to 9½c. per pound, ex dock, plus duty. Clarified was unavailable for shipment and users were taking material processed here. Owing to the congested conditions at Argentine ports, shipping rates were scheduled to be advanced 10 percent June 1, which will increase freight rates to about $31 per ton. Imports were light of late and some 13,555 bags arrived at Atlantic ports from the Argentine and 1,000 bags from Hull last week for delivery on previous contracts.

Valonia—Consuming inquiry continued slow last week. Shipments were offered quite freely and in the absence of trading the market remained entirely nominal.

Wattle Extract—Light offerings for shipment and a good demand for replacements continued to feature this market. Prices were firm for all grades. Arrivals of 7,359 bales of bark were noted last week for delivery on former contracts.

Bids Wanted

—Continued from page 4

cal Center (Edgewood, Md.) invitation CM-124, June 13; 1,000 gallons, Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8612, May 28; 3,200 gallons, Marietta T. C. Depot (Marietta, Pa.) invitation 70, June 5; 10,000 gallons, invitation 65, June 5; various types, 1,350 gallons, Marietta T. C. Depot, invitation 69, June 5; 9,145 gallons, invitation 68, June 5; 45,655 gallons, invitation 67, June 5; 40,802 gallons, invitation 66, June 5; 16,845 gallons, invitation 65, June 5; 2,325 gallons, invitation 81, June 6; 10,168 gallons, invitation 80, June 6; 700 gallons, invitation 76, June 6; 6,000 gallons, invitation 79, June 6; 1,425 gallons, Reclamation Bureau (Denver, Col.) invitation E-33, 301-A, May 28.

Paint Remover, 500 gallons, Panama Canal Purchasing Officer (Washington, D. C.) schedule 8612, May 28.

Pigments, in oil, 34,000 pounds, Panama Canal Purchasing Officer (Washington, D. C.) schedule 8612, May 28.

Propane gas, as required during fiscal year 1948, Army Air Forces (Chanute Field, Ill.), invitation 27, June 15; 5,774,882 gallons, Army Quartermaster (Fort Ord, Calif.), invitation 7, June 14.

Protective coating, 1,250 gallons, Army Air Forces (Dayton, Ohio), invitation 909, May 29.

Putty, linseed oil, 4,000 pounds, Panama Canal Purchasing Officer (Washington, D. C.) schedule 8612, May 28.
D. C.) schedule 8612, May 28; white lead, 8,000 pounds, Marietta T. C. Depot (Marietta, Pa.) invitation 77, June 6.

Rock salt, 60,000 pounds, Army Chemical Center (Edgewood Arsenal, Md.), invitation CM-143, June 2.

Rust preventive compound, 200 barrels, Army Ordnance Department (Independence, Mo.) invitation 10, May 29.

Salt, 720 tons, Army Air Corps (Chanute Field, Ill.) invitation 24, June 9.

Scouring powder, 206,032 pounds, Veterans Administration (Washington, D. C.), invitation 157-E, May 28.

Shellac, orange flake, 10,000 pounds, Panama Canal Purchasing Officer (Washington, D. C.) schedule 8612, May 28.

Soap, grit, 21,593¾ pounds, and powder, 671,250 pounds, Veterans Administration (Washington, D. C.), invitation 157-E, May 28.

Soda ash, 139,700 pounds, Veterans Administration (Washington, D. C.), invitation 157-E, May 28.

Solvents, as required during fiscal year 1948, Treasury Department (Washington, D. C.), invitation 9S-9505-R, June 2.

Thinner, lacquer, 1,000 gallons, Panama Canal Purchasing Officer (Washington, D. C.) schedule 8612, May 28; pyroxylin dope and lacquer, 1,000 gallons, Army Air Corps (Brookley Field, Ala.) invitation 31, June 2; paint, 2,205 gallons, Army Chemi- June 2.

Titanium-barium pigment, 6,000 pounds, Panama Canal Purchasing Officer (Washington, D. C.) schedule 8612, May 28.

Trisodium phosphate, 15,000 pounds, Panama Canal Purchasing Officer (Washington, D. C.), schedule 8626, June 2; 148,-670 pounds, Veterans Administration (Washington 25, D. C.), invitation 157-E, May 28.

Varnish, 1,600 gallons, Panama Canal Purchasing Officer (Washington, D. C.) schedule 8612, May 28.

Varnish, 3,000 gallons, Marietta T. C. Depot (Marietta, Pa.), invitation 78, June 6.

Whiting, 4,000 pounds, Panama Canal Purchasing Officer (Washington, D. C.) schedule 8612, May 28.

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Coaltar Chemicals

For the twentieth consecutive week, steel operations were scheduled above ninety percent, with this week's operations set at 96.1 percent of ingot capacity.

Very little change was noted in the overall supply and demand picture for coaltar chemicals last week, with shortages still existent and producers striving to meet all requirements.

Cresylic acid and naphthalene continued to head the list of basic products that were in extremely short supply, and it was reported that supplies of benzol were insufficient to meet all requirements. Crude coaltar and creosote oil continued to hold about the same market position as in former weeks, with demand good and supplies tight. Some of the higher boiling grades of pyridin and refined light solvent naphtha were said to be available, and toluol continued to be in easy supply. Supply and demand for xylol were in good balance.

Supply situation with regard to coaltar acids and other intermediates showed no change over previous weeks, with phthalic anhydride still said to be in extremely tight supply. Hydrogenated solvents have improved to the point where they are now in good balance, with no changes in quotations noted during the week.

An advice from Argentina indicates been authorized to purchase 120 that the Ministry of Agriculture has metric tons of dinitroorthocresol for delivery late this year, but stipulated that it be purchased in the United Kingdom.

Steel operations for the week beginning May 19 were scheduled at 96.1 percent of ingot capacity, compared with 94.2 percent in the previous week, according to the American Iron and Steel Institute. A month ago the indicated rate was 95 percent and the rate for the corresponding week in 1946 was 49.2 percent. The present schedule is equivalent to the production of 1,681,700 tons of ingots and castings, compared with 1,648,400 for the preceding week and 867,100 tons for the corresponding week last year.

Production and sales figures given below unless otherwise designated are from the Bureau of Mines and refer to coke-oven byproducts.

Basic Products

Benzol—Very little change with regard to this material reported from last week, with the market described as being active and supplies insufficient to meet all requirements. Demand was on a par with previous weeks and prices were holding firm at former levels. Sales of the motor grade during March amounted to 1,446,624 gallons as compared with 1,494,734 gallons during February and 3,196,601 gallons during March, 1946. Nitration sales during March totaled 3,577,116 gallons against 3,533,083 gallons during February and 4,909,195 gallons in March of the previous year. Sales of the industrial pure for March registered 9,121,086 gallons, compared with 7,156,703 gallons in the preceding month and 4,469,648 gallons in March of 1946. Sales of all other grades during March totaled 245,871 gallons, against 171,848 gallons for February and 228,629 gallons in March, 1946.

Coaltar—Regular contract channels continued to absorb almost the entire output of this material, and substantially larger amounts could be used if production could be stepped up sufficiently. Demand continued at a high level and supplies were reported to be extremely tight. Output of crude coaltar during 1946 amounted to 17,464,392 gallons, according to the Bureau of Mines, a decline of 12 percent below the 1945 figure. Sales of crude coaltar during March of this year totaled 32,127,072 gallons, as compared with 28,270,717 gallons sold during February and 32,513,293 gallons sold in March of 1946.

Creosote Oil—Market continued to be on a level with former weeks, with demand strong and supplies fairly tight. Almost the entire output of production continued to be absorbed through regular channels for wood preservation. Sales during March totaled 3,296,736 gallons, an increase of 4.4 percent over the February figure of 3,159,142 gallons, and a very substantial increase over the 2,392,097 gallons sold during March, 1946.

Cresylic Acid—Most quarters of the market could still see no relief in sight for the extremely short supply situation with regard to this acid that has existed for some time. Heavy demand continued to put a severe strain on production facilities and producers were having difficulty in meeting all requirements. Prices were holding firm at the late advance.

Naphthalene—Supplies of all grades of this material continued to be extremely tight, with the demand holding at the former high level. March sales of the crude solidifying at less than 70 deg. C. showed an increase of 196.9 percent, with the total being 1,130,820 gallons against sales of 380,908 gallons in February, and 1,116,533 gallons in March, 1946. Sales of the 70 deg. C. and less than 79 deg. C. during March amounted to 6,334,856 gallons, an increase of 12.2 percent over the February sales of 5,643,831 gallons, and a favorable comparison with the March, 1946, sales of 5,597,412 gallons.

Pyridin—Supplies of the pharmaceutical grades were said to be very short, with some of the so-called denaturing grades in relatively free supply. Demand was holding up well, and no changes in quotations were reported. Sales of the crude bases during March amounted to 30,900 gallons, as compared with 21,165 gallons during February and 32,022 gallons in March of last year. March sales of the refined 2° totaled 11,411 gallons, as against 8,902 gallons in February and 14,117 gallons in March, 1946.

Solvent Naphtha—Market reported to be fairly well in balance, with representative quantities of the refined light solvent available for current delivery. March sales of the refined light solvent totaled 21,262 gallons, as compared with 29,281 gallons sold in February and 20,209 gallons sold during March of 1946. Sales of the crude heavy solvent during March amounted to 400,503 gallons, an increase of 27.1 percent over the February sales of 315,231 gallons, and a substantial increase over the 307,604 gallons sold during March of last year.

Toluol—Little change noted in the prevailing firm tone of the market, with supplies described as being easy and demand holding on a par with previous weeks. Prices remained firm at former levels. Sales of nitration during March amounted to 1,773,891 gallons, an increase of 24.5 percent over the February sales of 1,425,243 gallons, and a substantial increase of the 905,088 gallons sold during March, 1946. Industrial pure sales for March totaled 617,087 gallons, as compared with 443,318 gallons sold during February and 236,677 gallons in March of last year. Sales of all other grades during March amounted to 81,224 gallons, as against 92,539

Market Trends

Prices Advanced
None

Prices Reduced
None

Comparative Price Indexes
(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
133.8	133.8	133.0	127.3

(For Current Prices see Page 9)

Coke By-Products

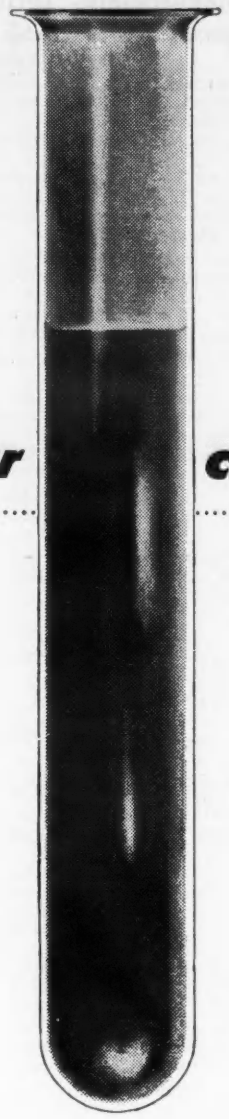
Estimates of by-product coke-oven operations in the week ended May 17 indicate the following output of by-products from that source:—

Ammonia liquid NH_3	lbs.	1,145,472
Ammonia sulphate	lbs.	29,661,696
Benzol	gals.	3,737,856
Coaltar	gals.	13,866,240
Creosote oil	gals.	771,686
Naphthalene, crude	lbs.	1,832,755
Phenol	lbs.	217,036
Toluol	gals.	747,571
Xylol	gals.	168,806

For Late Market Developments, See Page 4

KOPPERS

coal-tar chemicals



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XYLOL
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AND OTHER COAL TAR CHEMICALS

K KOPPERS

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OPD—5-26-1947 51

gallons sold in February, and 117,004 gallons sold in March of last year.

Xylol—Market was said to be just about in balance, with no immediate prospects of shortages developing, but with no surplus stocks on hand. Both supply and demand were termed good and prices have shown no changes. Sales of all grades during March totaled 562,449 gallons, a decrease of 7.5 percent below the February sales of 607,982 gallons, but an increase over the 477,125 gallons sold during March of last year.

Hydrogenated Solvents

Recent easing of the supply situation has resulted in bringing the market for these products into good balance, with supply and demand both good and about equal. Active interest is still being evidenced in cyclohexanol by the oil trade and synthetic resins industry, and demand for cyclohexanone was reported to be holding up well. No changes in quotations were reported during the week.

Coaltar Acids

Anthranilic—Stocks have remained short in this acid during the past month with the resublimed in a tighter condition than the technical grade. The market's price structure has remained firm without revealing any change in quotations.

Cleve's—Market position has not changed appreciably during the past month. The chief movement has been to contract consumers in the dyestuff industry.

Fumaric—Limited production has found a ready outlet to the synthetic resin industry. Demand has exceeded output leaving the supply situation tight.

Gamma—Essential requirements of the dyestuff industry have prevented any stock accumulations. Buying conditions have remained tight with former prices firmly sustained.

Maleic — Demand for protective coatings and synthetic resins has continued to over-tax current production and buying conditions throughout the past month have remained definitely tight.

Other Intermediates

Alphanaphthylamine — No appreciable improvement could be noted in the supply condition during the past month. Production has been kept down by the stringency prevailing in basic material.

Anilin — Consuming demand has been more readily satisfied during the month. Stocks are not excessive but sufficient to meet the essential requirements of regular consumers.

Betanaphthol—Stocks of technical have remained in short supply and it was stated that tight buying conditions will probably continue until there is some loosening up in basic material.

Paradichlorobenzene — Seasonal influx of consuming inquiries this month has contributed to the market's tight supply condition. Stocks have been insufficient to meet demand and producers have allocated material in an effort to maintain an equal distribution. Increased production is expected to reach the market by late Fall.

Phthalic Anhydride — Heavy demand for enamel finishes has kept well ahead of current production and the market is short of stocks. Production, while better than a month ago, has been insufficient to meet requirements. Heavy consumption and the stringency in crude naphthalene are factors instrumental in keeping the market in an exceedingly tight condition.

Coaltar Colors

While production of dyestuffs has been maintained, it has been difficult to increase output substantially on account of the tight supply prevailing in several essential basic products. There is a steady consuming demand from rayon and other textile mills and the acid, anilin, direct, sulphur and associated classifications have felt the stimulating impulse of domestic buying. The overall supply position is described as tight. The export inquiry was reported active with actual business restricted on account of short stocks.

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BETHLEHEM STEEL

Intermediates Imports Increased in 1946

OPD Washington Bureau

Imports of coaltar intermediates in 1946 totaled 3,120,564 pounds, valued at $437,169, compared with 703,304 pounds, valued at $214,704 in 1945, according to a report released by the United States Tariff Commission last week. Imports for the prewar period 1937-39 averaged 2,692,805 pounds valued at $2,380,963.

The report stated that the most important intermediates imported in 1946 were monomeric styrene fro Canada, cresols and cresylic acid from Canada, Australia and the United Kingdom, and naphthalene from Belgium and the Netherlands.

Imports of finished coaltar products in 1946 amounted to 2,023,935 pounds, valued at $2,649,275, compared with the 1945 totals of 27,565,752 pounds, valued at $4,877,103, and the 1937-39 average of 4,207,145 pounds valued at $5,631,205.

General Dyestuff Offers New Circulars

The General Dyestuff Corporation, New York, has released the following circulars:—G-474, "Helio Oil Red R Pdr."; G-470, "Fast Scarlet Salt G,"; G-475, "Peregal O K"; G-477, "Indanthrene Printing Violet 4RN Extra Paste," and GDC-258, "Celfon-Permanent Finishing of Fabrics."

Amer. Cyanamid Expands Textile Resin Staff

American Cyanamid Company has appointed J. J. Derrig and J. C. Clausi sales representatives in its textile resin department. Mr. Derrig's territory will include New York State, Long Island, western Connecticut and northern New Jersey, while Mr. Clausi will be active in northern New Jersey and metropolitan New York.

At the same time, the company transferred R. H. Drucker, who formerly made his headquarters at the Bound Brook plant, to Philadelphia, and assigned him territories which include Pennsylvania, West Virginia and Virginia.

Hooker Producing Monochloracetic Acid

The Hooker Electrochemical Company has announced the commercial scale production of Monochloracetic Acid at the Niagara Falls, N. Y. plant Emerging from several months on pilot plant scale, the process is now operating in new buildings erected for the purpose.

Although the plant is beginning large scale operation, all of its production is taken for some time to come. Further announcement will be made when the product is available generally.

Va.-Carolina Elects Dawes to Directorate

Virginia-Carolina Chemical Corporation, Richmond, Va., announces the election of I. D. Dawes as a member of the board of directors to succeed Spencer L. Carter, who recently resigned. Mr. Dawes is vice-president and treasurer of the corporation.

Trade Briefs

Spencer Kellogg & Sons, Inc., will split its capital stock on a two for one basis if a proposal of the directors is approved by the stockholders at a special meeting to be held on July 9.

General Electric Company, Schenectady, N. Y., is currently constructing two special 300-hp, 24-rpm inert-gas-filled synchronous motors for use in inflammable atmospheres. They have built-in coolers and a sealed chamber filled with a noncombustible gas.

Arma Corporation, manufacturer of gyroscopic, electronic and electromechanical devices, Brooklyn, has elected Herbert C. Guterman president. Mr. Guterman was previously senior vice-president and general manager of the company.

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Agricultural Chemicals

Lateness of the season has not revealed any appreciable relaxation of demand for the fertilizer chemicals. When available, muriate of potash has been shipped to regular consumers who are short of stocks and deducted from the amount allotted on future contracts. Soda nitrate has been shipped as rapidly as placed on dock. Superphosphate has been kept exceedingly tight for immediate and prompt shipments by a demand that has overtaxed the supply. Improved shipments of ammonia sulphate have favored regular contract consumers, but the open market showed no important easement. There was an absence of new price changes in bone meal, dried blood and tankage, although sufficient feeder buying was pumped in to steady the markets. Conservative buying continued to feature the insecticides.

Reports of the National Fertilizer Association indicate that fertilizer tax tag sales in 16 states during April of this year were equivalent to 954,000 short tons. Compared with a year ago, April sales were 6 percent higher, and compared with April, 1945, they were 5 percent higher. The sale of 954,000 equivalent tons last month represented a higher total than for any April since 1941, when sales were equivalent to 1,365,000 tons. Of the 11 southern states, five reported increases over the previous April. The increases in tonnage reported by these five states, however, was large enough to offset the decreases in the remaining six states, with the result that the total tonnage reported by the 11 southern states was 5 percent higher than for the preceding April. The greatest decrease, amounting to 30 percent, was reported by Louisiana. Sales in the midwestern states were 12 percent higher than in last April. Kentucky and Missouri reported decreases from the preceding April, but the other three States reported substantial increases.

Production of superphosphate in March, 1947, totaling 889,000 equivalent short tons basis 18 percent A.P.A. increased 21 percent over that of a year ago, according to reports submitted to N.F.A. and a summary of reports submitted to the Bureau of the Census. Shipments of superphosphate during March amounted to 580,000 equivalent tons, an increase of 5 percent over the preceding March. The 433,000 tons of superphosphate used in mixed goods during March represented an increase of 14 percent over the same period last year.

Production figures appearing below unless otherwise designated are from the Bureau of the Census, Department of Commerce.

Nitrogenates

Ammonia Nitrate—March production was placed at 90,333 tons, against a revised total of 85,663 tons in February and 42,860 tons in March, 1946.

Ammonia Sulphate—Current demand continued active enough to keep buying conditions tight. The movement has not extended far beyond regular contract channels. Production in March amounted to 34,764,000 pounds excluding byproduct coke-oven output. February production was 26,791,000 pounds and 24,863,000 pounds in March last year.

Castor Pomace — Contract orders are taking practically all the production of this material. No stocks were available in the open market.

Dried Blood — Prices stiffened slightly under moderate purchases for feeding requirements. Sales were reported at $7.25 per unit of ammonia with sellers asking $7.50 at the close of the week.

Soda, Nitrate — Maintenance of heavy demand has kept the supply situation exceedingly tight. Backlog orders are taking all the domestic output as well as the arrivals from Chile.

Tankage—Sellers noted a moderate improvement in the demand for feeding requirements although buying interest was not sufficiently active to lift prices above former trading levels.

Fertilizer Tag Sales: March

	Equivalent tons		
	March 1947	Jan.-March 1946	Jan.-March 1947
Virginia	83,676	83,857	344,806
North Carolina	173,862	205,133	965,592
South Carolina	82,078	70,050	528,008
Georgia	143,920	130,229	775,413
Florida	90,949	71,666	315,210
Alabama	89,150	78,600	476,750
Tennessee	46,902	18,803	148,692
Arkansas	24,500	27,250	118,500
Louisiana	16,600	23,721	102,180
Texas	33,404	35,289	172,648
Oklahoma	2,550	2,900	38,290
Total South	787,591	747,498	3,986,089
Indiana	54,422	35,123	229,529
Illinois	40,280	17,650	166,925
Kentucky	37,623	48,293	198,354
Missouri	19,850	43,579	119,277
Kansas	14,045	4,158	33,943
Total Midwest.	166,220	148,798	748,028
Grand total	953,811	896,296	4,734,117

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

None

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
71.5	71.5	71.5	71.8

(For Current Prices see Page 9)

Phosphates

Phosphate Rock — No appreciable easement in the demand for phosphate rock shipments could be noted. According to reports, there has been no increase in stocks above ground as current output is heavily sold on contract to acidulators. A substantial expansion in the use of superphosphate in the Mid-west suggests a heavy demand for phosphate rock indefinitely.

Superphosphate — Stocks short enough to hold the market exceedingly tight for immediate shipment. Production in March was placed at 798,259 tons of normal 18 percent by NFA. The output of concentrated 45 percent was 33,999 tons and wet-base material 18 percent amounted to 5,618 tons. Stocks on hand on March 31 were 512,489 tons of normal, 52,455 tons of concentrated and 2,257 tons of wet-base superphosphate. The total equivalent tons 18 percent basis was 645,884. January through March output registered 2,556,000 equivalent tons which is substantially higher than for the same period a year ago.

Potashes

Inquiry for future contracts is steadily increasing and some orders have been accepted in muriate for the period covering June 1, 1947, to March 31, 1948, at 37½c. per unit of K_2O works. Where available, prompt shipments have been accepted and charged against contracts. The open market appears to have created the impression among buyers that any quantity can be purchased while producers have regulated sales according to output. Present estimates place production fully up to the 1946-1947 level unless unforeseen developments materialize.

Markets at Other Centers

Los Angeles.—Organic supplies continued to increase here this week, but full demand could not be met. Other chemicals remained in short supply. Prices, this week, remained firm. Ammonia nitrate, $65 per ton with freight allowances up to $4.40 per ton from production plant. Ammonia phosphate, $52.80 per ton for 16/20 grade and $66.20 for 11/48 delivered at production plant.

Insecticides

Supply situation is described as spotty with the overall outlook not as desperate as noted earlier in the year. The buying tendency has not varied greatly with immediate requirements commanding the most attention. It is stated that a satisfactory amount of contract business has been entered in calcium arsenate and DDT, but in most other varieties operations have been chiefly confined to minimum quantities for spot shipment. Farmers appear to be waiting for prices to decline, although there is nothing suggestive of lower markets at the present time.

Calcium Arsenate — Production in March registered 1,221,000 pounds, the lowest since December, 1946. Output in February was 1,543,000 pounds and 1,610,000 pounds in March last year.

Lead Arsenate—March output was placed at 4,481,000 pounds, compared with 3,691,000 pounds in the preceding month and 8,755,000 pounds for March, 1946. March production was the largest since June of last year.

Revision of the Japanese beetle quarantine area to include all or parts of 10 additional counties in Maryland, New York, Ohio, and West Virginia, and modifications of the regulations covering inspections of fruits and vegetables for Japanese beetles have been announced by the Department of Agriculture. The new regulations become effective upon publication in Federal Register.

Sulphur and Pyrites

Steady tonnage shipments are reported from sulphur mines and stocks have remained favorable to meet all requirements promptly. Consumption in agriculture and industry has maintained a satisfactory average and the combined movement of sulphur is reported fully up to seasonal expectations. Arrivals of Spanish pyrites are uncertain and shipments will likely continue irregular until some definite arrangement is made with foreign producers. Prices are unchanged.

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Drugs and Fine Chemicals

Price movements slowed down last week in the market for drugs and fine chemicals. The period was one in which producers and consumers alike awaited further developments in basic raw materials, proceeding in the meantime to book a fair sized total volume of new business.

In solvents, there was a market for more than the available amount of products, based on the current volume of production. However, it may be recalled that February production of some materials showed a substantial cutback from that in January and it may well be that the decrease in output has been extended since February.

A check with the makers of iodides revealed that they still have to advance prices if the schedule ultimately shall reflect the sharp advance in crude iodine prices some weeks back. It was suggested that such an advance in iodides awaits the beginning of production from the higher priced crude iodine.

Citrates were fully firm at the price advance reported lately and the rise reflected the recent increase in quotations on citric acid. However, a price rise on ammonia citrate and bismuth-ammonia citrate were still wanting.

Opium derivatives failed to develop change in prices. Some had thought that the arrival of a large and long overdue shipment of opium from Istambul might influence the current schedules on morphine and codeine, but such reaction failed to develop last week and both groups appeared to be very firm in price.

Mercurials continued in stabilized price position notwithstanding the slight decrease in quicksilver quotations. And since no change was made in the price of silver bullion, none was made in the quotations on silver salts. Cadmium salts reflected the obvious strength of cadmium metal. No pending weakness was found in the position of bismuth metal and its salts.

Castor beans continued in nominal price position. Importers here withheld from the futures market in expectation that further price declines would come before shipments of the June-July position commence. Oil failed to decline further but is was none too steady at the reduction made during the previous week.

Market Trends

Prices Advanced

None

Prices Reduced

Quicksilver, $1 per flask.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
253.5	253.5	252.7	211.8

(For Current Prices see Page 9)

Acetoacetanilide—Firm in price in keeping with prevailing production costs and the very steady character of current consuming demand.

Acid, Hydriodic—The market was firm, reflecting the present cost of crude materials which have given added strength to the market despite the fact that demand remains distinctly routine in all respects.

Acid, Hydrobromic—Steady for the most part but subject to a rather narrow consuming request that, however, was in line with normality for this acid. Supplies covered needs amply.

Acid, Hypophosphorous—The USP article was in light request. Needs were scattered and usually small. Notwithstanding, prices remained in well stabilized position and supplies were sufficient for all requirements.

Acid, Tartaric—According to a late report of the Department of Commerce, Portuguese exports of tartaric acid raw materials in 1946 dropped substantially. In the period January-November, the exports totaled 1,135 metric tons, comparing with 4,591 tons in the corresponding period in 1945. The acid market was normally active last week. In fact, some quarters reported more inquiry if not an actual gain in sales. Prices of the American producers remained very steady.

Acid, Thioglycolic—Competition was reported to be keen and while open quotations were free from change, they were not too steady and the tendency to move in favor of buyers when substantial inquiries came under the influence of competition.

Aconitine—Both the mild amorphous and the potent crystals held very firm at relatively high prices that have developed with the rising cost of production and the dwindling of competition in local circles.

Agar—Further transactions by government agency have not been reported but it was understood that more Japanese goods would be offered spot dealers ultimately if not immediately. Spot prices were relatively steady but increase in supply, however slow, tends to soften the market undertone.

Alcohol—Reports indicated that a ready market exists for all the alcohol the domestic distillers can produce. Much more could be sold if more were available. The last sales of blackstrap molasses were made at an advance of 2c. per pound over the figure previously obtained by the Reconstruction Finance Corporation. Some reduction in consumption of special solvent denatured alcohol has taken place.

Aloin—Toward the close of the previous week prices were reduced 30c. per pound and a market established over the range $4.20 to $4.50 per pound. A leading producer stated that production costs had dropped with the greater availability of lower priced raw material.

Ammonia Biborate—Producers indicated that the market was well stabilized both as to price and consuming requirements. Undertones were steady to firm and at current quotations, opportunities for price competition were not numerous or prominent.

Ammonia Bromide—Although the demand was routine, it was also steady and productive of a good sized volume of transactions on new orders. Prices appeared to be steady to firm in all directions.

Ammonia Iodide—Prices still failed to reflect the fact that some weeks back, a sharp advance took place in the quotations on crude iodine. This iodide remained steady with demand definitely routine.

Ammonia Pentaborate—The market was well stabilized. Prices were steady and demand was about up to expectations in a market lacking anything in the way of substantial price competition.

Atropine—Both alkaloid and sulphate were firm in price and neither was in superior spot supply last week. Undertones were those of strength and until raw material is freely available at reasonable prices, a strong situation in atropine is deemed likely to continue.

Cadmium Iodide—Production cost of this article rose some weeks back when crude iodine was sharply raised in price. However, producers of the iodide have yet to make any change in its quotations.

Calcium Iodide—Prices continued to hold unchanged, in that respect failing to reflect the higher prices now being obtained for raw material. The demand last week was reported as purely routine.

Camphor—Prices on synthetic camphor lacked further development. However, during the past week the price movement in turpentine went into reverse and sharp advances were scored in that article in the southern markets. Therefore, synthetic camphor was at least potentially firmer.

Castor Beans—The last price mentioned as possible in the Brazilian market was $190 per long ton, f.o.b. Brazilian ports, but it was a nominal quotation as far as buyers here were concerned. The price was proposed on new crop beans expected to begin movement in June-July and the late trend of primary market quotations has been such as to make potential buyers hold aloof pending further reductions in the present very high price level of beans.

Late in the previous week crushers reduced prices 3c. per pound on USP oil, making the tank price 29c. per pound; drums, carlots, 30c.; less than carlots, 31c. No. 3 technical oil was also down 3c., making minimum prices

For Late Market Developments, See Page 4

ALKALOIDS

GLUCOSIDES — DRUG EXTRACTIVES

1917

ACONITINE
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ARECOLINE
ASPIDOSPERMINE
ATROPINE
BERBERINE
CHRYSAROBIN
COLCHICINE
DIGITALIN
EPHEDRINE
ESERINE
HOMATROPINE
HYDRASTINE
HYOSCINE
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Importations of beans last week totaled 22,141 bags, or 3,421,150 pounds, contrasting with 10,825 bags, or 1,623,750 pounds in the previous week and 1,700 bags, or 255,000 pounds in the corresponding week in 1945.

Total imports since January 1 became 715,552 bags, or 107,332,800 pounds, comparing with 609,792 bags, or 91,468,800 pounds, during the corresponding period in 1945.

Cinchonidine, Cinchonine—Both articles were difficult to obtain, and although quotations were noted at $1.02½ per ounce for the former and on cinchonine, 75½c. for small crystals and 79½c. for large crystals of alkaloid, while sulphate stood at 55½c., the quotations were merely indications of values and not assurances that spot deliveries would be made.

Cinchophen—Demand for moderate-sized quantities was steady even as prices were steady throughout the past week. Supplies available at this time could care for any reasonable expansion in consumer needs.

Cocaine—Supplies of raw material were renewed last week to the extent of 164 bales that came from Mollendo, Peru. Prices and demand for cocaine hydrochloride remained in complete equilibrium.

Codliver Oil—Despite the fact that substantial quantities of oil have reached this market of late, prices have not weakened. Abroad, they have held very firm under the pressure of excellent demand for all sorts of requirements. Demand on spot was rather conservative last week, a fact without adverse effect on the market since sellers are now concerned with creating stocks to provide fully for the expansion in needs certain to arrive with next Winter.

Corn Syrup—The stronger price position developed in recent weeks was undisturbed by adverse factors during the period just ended. The demand was good. The production cost was maintained. The supply was not abundant. Combined, these elements made for a firm spot position.

Ethyl Acetate—Prices appeared to be steady. Producers indicate demand to be excellent and to account for most of the current total volume of production. Some say they could sell more if more were available, but the last production report on the item showed that in February output reported dropped 3,101,541 pounds.

Fishliver Oil—The market favored buyers. Competition was rather keen and while open quotations lacked change, they were none too firm most of last week. Imports of fishliver oil totaled 13 drums from Capetown, South Africa. Also, 36 drums of sharkliver oil came from Valparaiso, Peru.

Glycerin—The market position continued to improve from the standpoint of production costs. Soapers' oils have failed to develop a firmer position and prices were favorable for buying operations. Supplies of glycerin were said to be undergoing improvement and consumer needs are being far better and more promptly supplied than they were a short time back. Refiners' prices lacked quotable change. Crude tended downward but the last known sales of soaplye were made at 30c. per pound in tanks.

Iodine—Crude continued to be sold at $1.729 per pound, net, and the market was apparently steady at the level reached by the late and very sharp advance. However, prices on resublimed material have not yet reflected the rise in crude.

Iodoform—Higher prices have been likely for several weeks—since the late advance in the price of crude iodine. Demand for iodoform has been steady but the supply has also been ample.

Mannitol—Current prices have been unchanged for a substantial number of weeks and the market continued, apparently in well stabilized position.

Menthol—Spot prices were firmer. Some sellers advanced quotations by about 10c. per pound, but others retained an unchanged price position while also reporting a much firmer situation in Brazil.

Mercury Iodides—Producers continued to maintain the schedule of prices in force prior to the late advance in crude iodine. Nor did they intimate last wek that the expected advance in iodide prices would take place at an early moment. However, the supply of iodides made from iodine bought prior to the advance is not inexhaustible.

Methylamyl Ketone—The market still lacked offerings and a purely nominal situation continued to prevail so far as stocks were concerned.

Methylethyl Ketone—Stocks were not plentiful and consumer requirements were reported maintained at substantial totals. The result was a firm price position and an absence of local competition between producers.

Milk Powder—Prices were no lower but the market remained moderately competitive. Some think that a reversal of the downward trend may come as the lush supply of milk gives way to a lessened supply of that raw material—a decrease which the Federal government now calculates will warrant an official advance in prices payable to the milk producers.

Molasses—The last sales of blackstrap were at 21.9c. per gallon at which price the Reconstruction Finance Corporation sold 3,150,000 gallons to alcohol producers. This was an advance over the last previous price obtained. More sales by the government agency are scheduled.

Papaverine—Both natural and synthetic material were steady. The recent arrival of a substantial quantity of raw material had no adverse effect on prices for natural papaverine nor have raw materials used to produce synthetic material assumed more favorable price position.

Phenolphthalein—Both the USP and yellow product were in good request. Future needs have been covered well but there have been a goodly number of prompt delivery orders in the market. All this business contributed added stability to the price schedule prevailing for a substantial period of time.

Potash Bromide — Manufacturing consumers were steady absorbers of current production that was sold on the basis of comparatively firm prices throughout the past week. All consumer requirements were being met on a reasonably prompt shipment basis and fair reserves remain in the hands of most suppliers.

Potash Citrate — Though lacking further price rise, the market was definitely one of firmness based on the current price of citric acid and the absence of any weakening factor in the market position of that basic raw material.

Quinine—New developments in the Java situation were not noted. Establishment of amicable and peaceful relations between the Dutch and Indonesians is proving no easy matter, yet a composition of their differences is almost the first requisite for a return of liberal exports of quinine to the world. It may be doubted that when exports are resumed, they will be

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free, unrestricted, and uninhibited; such a condition is not in the nature of the quinine market in the Far East or in Holland. While there is plenty of bark in Java, it seems likely that the world will have to accept quota control exercised in Holland. As to future prices, nothing at this time suggests that they will move soon in favor of nations compelled to cover their requirements in the Far East.

Riboflavin—Consumer activity was about normal, varying little from that in recent weeks but being sufficient to keep prices in an apparently well stabilized position.

Rochelle Salt—Demand was routine. Normal quantities were in request and deliveries were on a reasonably satisfactory basis. Prices were apparently steady for the time being at least.

Santonin—Demand has been more than sufficient to keep unsold stocks conservative in size and to cause sellers to assume a position of substantial reserve in the matter of filling other than relatively small orders at the present time.

Silver—Quotations on silver bullion had a steady quality throughout the past week, the official price remaining at 72¾c. per ounce. Prices on nitrate were also well stabilized, therefore.

Silver Price Range

	Per ounce	
	New York	London
High	Mar. 6—86¼c.	Jan. 2—55⅛d.
Low	Jan. 20—70¾c.	Feb. 5—44d.

Soda Benzoate—Sales have shown some increase in directions now disposed to provide for preserving requirements to develop later in the year as the agricultural crops come in. Prices were very steady.

Soda Bromide—Requirements were supplied with reasonable promptness and on the basis of fully steady prices. Production copes with need in satisfactory fashion and allows moderate reserves to apply against unexpected demands should such develop.

Soda Citrate—The price advance recently reported remained anchored fast to firm position by the stability of current prices on citric acid. And demand has accepted the higher price on the citrate without question, being generally active along normal lines last week.

Solvay Ohio Plant To Produce Methanol

The Solvay Process Company, wholly owned subsidiary of the Allied Chemical & Dye Corporation, New York, has installed facilities in its South Point, Ohio, plant for the production of methanol. The new installation is expected to be in operation within a year.

The South Point plant has been producing principally anhydrous ammonia and ammonium nitrate-ammonia solutions for general industry and fertilizer producers.

Dr. E.F. Kelly Portrait Given to UNC School

A portrait of the late Dr. Evander Frank Kelly has been presented to the School of Pharmacy of the University of North Carolina by the North Carolina Pharmaceutical Association. Dr. Kelly was a native of Carthage, N. C. At the time of his death in 1944, he was executive secretary of the American Pharmaceutical Association. For twenty-five years he had been prominent as a pharmacal educator.

Trade Briefs

Dr. Howard S. Turner, formerly associated with E. I. du Pont de Nemours & Co., Wilmington, Del., has been appointed assistant director of the research and development division of Pittsburgh Consolidated Coal Company.

Copper sulphate production in France for March registered 8,000 tons, compared with 8,500 tons in February. Output of crude potash in March was 357,859 tons, equivalent to 65,990 tons of K_2O, against production of 322,859 tons, equivalent to 61,410 tons of K_2O in February.

B. F. Goodrich Chemical Company, Akron, has issued technical bulletins describing detailed chemical and physical properties of two new organic chemical intermediates, Good-rite Rhodanine (2-Thio-4-ketothiazolidine) and Good-rite 2-Aminoethyl-sulphuric acid.

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Mich. Pharmacists View Public Relations Needs

The Michigan State Pharmaceutical Association heard Edward J. Carroll, director of economic research, of Sharp & Dohme, Inc., pharmaceutical manufacturer, Philadelphia, declare that "progress in medicine and pharmacy has reached a point today where the most pressing problem is not the development of more medical knowledge and new products, but rather seeing to it that the public realizes the tremendous progress that has been made in the last thirty-five years," at its annual meeting at the Pantlind hotel, Grand Rapids.

Mr. Carroll continued by stating that "during the last eight years the per capita expenditure in drug stores has doubled. Expenditures in departments closely associated with health and hygiene have increased at a more rapid rate than sales in other departments. The number of prescriptions per drug store has been increasing rapidly.

"This means that more and more people are becoming aware of the advances made in the field of medicine and are giving the druggist a chance to make the patient's life a longer, healthier and happier one. Medicine and pharmacy are more and more emphasizing preventive care, but far too many of us still have the horse and buggy idea that we should visit a doctor only when we are seriously ill."

Heavy Carbon Supply Increased for Research

A 600 percent increase in the amount of heavy carbon available for scientific studies has been made possible by development of a large scale process for separating heavy atoms from ordinary carbon, Dr. David W. Stewart, of the research laboratories of The Eastman Kodak Company, Rochester, told a meeting of the American Chemical Society's Rochester section May 19.

Heavy carbon of atomic weight 13 is not radioactive, Dr. Stewart explained, but with a spectroscope scientists can distinguish it from ordinary carbon, which has an atomic weight of about 12. The newly developed "chemical exchange" separation method has made it possible to prepare carbon-13 compounds at seven times the previous rate, he declared.

Bergmann Reviews New Antithyroid Compounds

The Federation of American Societies for Experimental Biology heard Dr. A. J. Bergmann, of the Sterling-Winthrop Research Institute, Rensselaer, N. Y., report on new progress in antithyroid studies at its meeting held last week in Chicago.

Two new antithyroid compounds, cyclopropylthiouracil and cyclohexylmethylthiouracil, were revealed by the speaker, and he declared that both were found to be "active in laboratory test animals."

Dr. Bergmann told of the preparation and assaying of new compounds which were compared with thiouracil, and he detailed the results of these tests and the conclusions derived from the results.

Ball Bros. Appoints Four to New Posts

Ball Brothers Company, jar manufacturer, Muncie, Ind., has appointed John W. Fisher as general manager of container manufacturing. Others named to new positions include John C. Schwab, glass factories manager; Fred Kirk, general superintendent of the Muncie plant, and D. K. Addie, technical adviser to the glass division.

Abbott Labs Names Associate Sales Head

Abbott Laboratories, North Chicago, Ill., has appointed David D. Stiles associate director of sales and chairman of the sales executive committee. Mr. Stiles was formerly assistant sales manager. Herbert S. Wilkinson, who was east central divisional sales manager, has been named general sales manager.

Reid Presented With Herty Medal

Dr. E. Emmet Reid, professor emeritus of chemistry at Johns Hopkins University, has been awarded the Herty Medal for outstanding contributions to chemistry in the southeast. The medal is awarded annually to a scientist selected by the Georgia section of the American Chemical Society. Dr. Reid, who is research adviser to several southern colleges and universities, is known for his research in chemical warfare.

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Bristol Laboratories Gets New Manager

Franklin H. Bivins has resigned as vice-president and general manager of Bristol Laboratories, Syracuse, N. Y., and Dr. Philip I. Bowman, vice-president in charge of plants, will become responsible for the company's operations in Syracuse on June 1st.

Mr. Bivins will rejoin Bristol-Myers Company to work on staff problems with Philip C. Sayres, former president of Bristol Laboratories, who is executive vice-president of Bristol-Myers.

Bivins was sent to Syracuse four years ago by Bristol-Myers to supervise construction of the company's penicillin plant which was then being erected under wartime priorities. At that time it was decided that he would remain in Syracuse until a competent managing group could be organized for the rapidly expanding company.

Dr. Bowman, formerly with the Heyden Chemical Corporation in Princeton, N. J., joined Bristol Laboratories in 1944 as production manager of the penicillin plant and was later made plant manager. He was made vice-president in charge of all the plants of Bristol Laboratories last July.

Antimalarial Agents Symposium June 12-14

Recent advances in the study of antimalarial agents, sex hormones, and some chemical constituents of the nerves and brain will be reported by chemists from the nation's laboratories of education and industry at the tenth national organic chemistry symposium of the American Chemical Society, to be held in Boston, June 12 to 14 under the joint auspices of the society's division of organic chemistry and northeastern section.

Dr. James B. Conant, president of Harvard University, will be honorary chairman of the symposium, and will speak at the symposium dinner on June 13, at the Statler hotel, headquarters for the meeting.

Professor Arthur C. Cope, head of the department of chemistry in the Massachusetts Institute of Technology and chairman of the Division, will preside at the technical sessions, all of which will be held in New England Mutual hall, 225 Clarendon street.

Steel Shipping Barrels Output Up in March

Production of steel shipping barrels, drums and pails during March increased slightly, with the industry producing 2,291,080 heavy-type barrels and drums, and 593,069 light type barrels and drums, and 5,304,124 steel packages, kegs and pails, according to a report by the Bureau of the Census. This compared with the production of 2,063,690 heavy-type barrels and drums, 595,505 light-type barrels and drums, and 4,977,719 steel packages, kegs and pails in February.

Innis, Speiden to Market New Bleaching Clay

Innis, Speiden & Co., botanicals, waxes and gums, New York, will market a new bleaching clay, called 'Adsorbol' for use in decolorizing vegetable, marine, nut and petroleum oils.

It is an absorption clay, available in both the natural and activated states, and can be used to excellent advantage in the recovery of crank case oils and dry-cleaning solvents, according to the dealers.

Monsanto Names Traffic Manager Assistant

Monsanto Chemical Company, St. Louis, Mo., has appointed Irby L. O'Brien assistant general traffic manager. Prior to his employment by Monsanto, Mr. O'Brien was associated with the Illinois Central Railroad.

Jacobs Heads UNC School

The University of North Carolina has appointed Dr. Marion L. Jacobs dean of the School of Pharmacy for a five-year period. He has been acting dean since the death of Dean J. Grover Beard, and was previously assistant dean. Dr. Jacobs is a graduate of the School of Pharmacy and has been a member of the faculty since 1926. He previously taught at the University of Nebraska and the University of Colorado.

Pepsodent Engages R.A. Weber

The Pepsodent division of Lever Brothers Company, Chicago, has appointed Ray A. Weber sales promotion manager. Mr. Weber is going to Pepsodent from the Allied Home Products Corporation, Beloit, Wisc., where he has been vice-president in charge of sales and advertising since 1943.

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Scarcity of Sharks Cuts Vitamin Supply

WASHINGTON, Jan. 18. (AP) James M. Lemon, chief of the technical branch of the Fish and Wildlife Service, said today a scarcity of sharks is threatening the nation's supply of vitamin A. "The truth is," Lemon told a reporter, "our sources of supply for vitamin A are drying up—and this is a vitamin that has not yet successfully been synthesized."

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ASBESTOS, CRUDE—120 bgs, Leonard J Buck, Inc, Capetown—1,280 bgs, United States Rubber Co, Beira—1,600 bgs, Johns-Manville Corp, Beira—500 bgs, Philip Carey Mfg Co, Lourenco Marques—Fiber, 4,364 bgs, Johns-Manville Corp, Capetown
ASPHALT, MINERAL—580 bgs, G S Ziegler & Co, Havana
BABASSU KERNELS—2,000 bgs, General Foods Corp, Sao Luiz, Maranhao—9,333 bgs, Spencer Kellogg & Sons, Sao Luiz, Maranhao—4,166 bgs, General Foods Corp, Parnaiba
BALATA—1,048 blocks, Littlejohn & Co, Para—32 cs, Hecht, Levis & Kahn, Manaos—234 cs, Otis Astoria Corp, Manaos—95 cs, H A Astlett & Co, Manaos—223 cs, Herman Weber & Co, Manaos—27 bgs, H A Astlett & Co, Cartagena—78 bgs, Wessel, Duval & Co, Cartagena—143 blocks, Herman Weber & Co, Belem—30 cs, Earle & Co, Manaos
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BARBASCO ROOT—2,170 bls, H A Astlett & Co, Belem—4,036 bls, Otis Astoria Corp, Belem—6,493 bls, Hecht, Levis & Kahn, Inc, Belem—6,638 bls, Pan American Rotenone Co, Belem—1,289 bls, G L F Holding Corp, Belem—1,680 bls, H A Astlett & Co, Para—1,603 bls, Hecht, Levis & Kahn, Para—2,493 bls, Otis Astoria Corp, Para
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BAY OIL—1 dm, Royal Bank of Canada, Roseau
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BERGAMOT OIL—20 cs, Corn Exchange Bank, Messina
BISMUTH, REFINED—118 cs, Cerro de Pasco Copper Corp, Callao
BONES—535 bgs, Wessel, Duval & Co, Porto Alegre—2,010 bgs, International Commercial Co, Rio Grande
BUTTONLAC—25 bgs, C L Camerik, Calcutta—100 bgs, Gillespie-Rogers-Pyatt Co, Calcutta—5 cs, J Berlage & Co, Bangkok—2 cs, Richard S Greenlee, Bangkok—100 bgs, C H Tunn Co, Calcutta
CANARY SEED—93 bgs, Hershey & Co, San Antonio
CARAWAY SEED—100 bgs, C M Van Sillevoldt, Rotterdam—300 bgs, Louis Furth, Inc, Rotterdam—100 bgs, Rudolph L Friedler, Rotterdam
CARNAUBA WAX—293 bgs, S C Johnson & Son, Natal—332 bgs, Smith & Nichols, Natal—171 bgs, American Cyanamid & Chemical Corp, Natal—2,252 bgs, S C Johnson & Son, Parnaiba—197 bgs, W R Grace & Co, Fortaleza—133 bgs, Wessel, Duval & Co, Fortaleza—90 bgs, Strahl & Pitsch, Fortaleza—132 bgs, J Henry Schroeder Trading Co, Fortaleza—365 bgs, American Cyanamid & Chemical Corp, Fortaleza—906 bgs, S C Johnson & Son, Fortaleza—20 bgs, Wax & Rosin Products, Inc, Fortaleza—112 bgs, Fortaleza—146 bgs, S C Johnson & Son, Belem—112 bgs, Simoniz Co, Inc, Fortaleza—72 bgs, W Looser & Co, Fortaleza—352 bgs, Cornelius Products Co, Fortaleza—33 bgs, Wm M Allison & Co, Fortaleza—33 bgs, F B Ross Co, Fortaleza—56 bgs, Innis, Speiden & Co, Fortaleza—66 bgs, E A Bromund & Co, Fortaleza
CASHEW SHELL LIQUID—600 dms, Irvington Varnish & Insulator Co, Mangalore—11 dms, Irvington Varnish & Insulator Co, Cochin—51 dms, Bombay
CASSIA—50 bls, Young & Glenn, Hongkong—402 bls, C T Wilson & Co, Hongkong—300 bls, 50 pkgs, Arnhold & Co, Hongkong—50 bls, Archibald & Kendall, Hongkong—500 bls, Catz American Co, Hongkong
CASSIA OIL—5 dms, Dodge & Olcott Co, Hongkong
CASTOR BEANS—4,995 bgs, Bunge Corp, Recife—4,775 bgs, Spencer Kellogg & Sons, Fortaleza—200 bgs, Spencer Kellogg & Sons, Sao Luiz, Maranhao—2,200 bgs, Baker Castor Oil Co, Maceio—850 bgs, Chase National Bank, Cabadelo—1,690 bgs, Spencer Kellogg & Sons, Fortaleza—3,160 bgs, Tunley & Co, Fortaleza—3,400 bgs, Baker Castor Oil Co, Recife—1,831 bgs, Baker Castor Oil Co, Fortaleza—240 bgs, Baker Castor Oil Co, Bangkok
CASTOR OIL—125 dms, Murray Oil Products Co, Pernambuco—55 dms, Bangkok—14 dms, Paul & Stein Bros, Bangkok
CERAMIC COLORS—3 cs, American Express Co, Liverpool
CHICLE GUM—102 cs, Herman Weber & Co, Manaos—318 bdls, Mexican Exploitation Co, Tampico
CINNAMON BARK OIL—2 cs, P R Dreyer, Colombo
CITRONELLA OIL—59 dms, Procter & Gamble Mfg Co, Cincinnati, Colombo
COCA LEAVES—164 bls, Maywood Chemical Works, Mollendo
COCILLANA BARK—353 bgs, Bank of London & South America, Mollendo
COLOMBO ROOT—346 bgs, Raymond J Lepow, Dar-Es-Salaam—119 bgs, Dar-Es-Salaam
CONDURANGO BARK—65 bgs, Duncan Fox & Co, Paita
COPAL GUM—1,034 baskets, O G Innes Corp, Macassar—526 baskets, Otto Gerdau Co, Macassar—87 baskets, J F Frank, Macassar—1 cs, Continental Commodities Corp, Bangkok—160 bgs, W H Scheel, Manila—74 bgs, Thurston & Braidich, Manila
COPRA—250 tons, Spencer Kellogg & Sons, Cebu
CRESYLIC ACID—1 cs, Westinghouse Electric International Co, Southampton—50 dms, Republic Chemical Co, Liverpool—322 dms, Liverpool—271 dms, W D Neuberg Co, Hull
DAMMAR GUM—350 bgs, American Cyanamid & Chemical Corp, Singapore—125 cs, 768 bgs, S Winterbourne & Co, Singapore—210 bgs, O G Innes Corp, Singapore
DANDELION ROOT—100 bgs, S B Penick & Co, Rotterdam
DERRIS ROOT—151 bls, Reconstruction Finance Corp, Dar-Es-Salaam—80 bls, S B Penick & Co, Singapore
DEXTRIN—100 bgs, O Essman, Rotterdam
DYES, ANILIN—18 dms, Sandoz Chemical Works, Havre
DYESTUFFS—2 bbls, Wah Chang Trading Corp, Shanghai
ELEMI GUM—27 cs, G H Lincks, Manila—53 cs, S Winterbourne & Co, Manila
EUCALYPTUS OIL—11 dms, Orbis Product Corp, Melbourne—6 dms, Continental Bank & Trust Co, Melbourne
EUCALYPTUS WOOD EXTRACT—3,996 bgs, Judson Sheldon Corp, Freemantle
FISH LIVER OIL—13 dms, Karr Ellis & Co, Capetown
FORMALDEHYDE—5 bbls, B Rubienraut, Gothenburg
FUEL OIL—95,000 bbls, Standard Oil Co N J, Aruba—93,572 bbls, Gulf Oil Corp, Curacao—10,000 bbls, Asiatic Petroleum Co, Curacao
GALL—3 trcs, International Commercial Co, Rio Grande
GHATTI GUM—114 bgs, Gondrand Shipping Co, Bombay
GLUE—198 bgs, Transatlantic Animal By Products, Inc, Fortaleza—500 cs, C B Hewitt & Bros, Bangkok
GYPSUM—5,287 tons, United States Gypsum Co, Windsor—2,748 tons, National Gypsum Co, Walton
HENNA LEAVES—6 bls, J L Hopkins & Co, Port Sudan
HERB, MEDICINAL—8 bls, J L Hopkins & Co, Antwerp
HORN & HOOF MEAL—2,008 bgs, Tupman, Thurlow & Co, Santos
IRON OXIDE—11 cks, J Lee Smith & Co, Hull
KARAYA GUM—266 bgs, J H Reed, Cleveland, Bombay
KYANITE — 80 bgs, Golwynne Chemical Corp, Calcutta
LAVENDER OIL—1 pkg, Brown Bros-Harriman Co, London
LEMON OIL—80 qtr cs, Guaranty Trust Co, Messina—29 qtr cs, Messina
LEMONGRASS OIL — 17 dms, Maywood Chemical Works, Cochin—5 dms, Verona Chemical Co, Cochin
LIME JUICE—5 cks, E Dewitt Osborn, Roseau
LIME OIL, DISTILLED—22 cs, Barclay Bank, Roseau
MACE—41 cs, C T Wilson & Co, Rotterdam—212 cs, Catz American Co, Macassar—12 cs, E Meer & Co, Macassar—8 cs, Joensson & Cross, Macassar—25 cs, C T Wilson & Co, Macassar
MAGNESITE—1,000 bgs, Golwynne Chemical Co, Madras
MANGROVE BARK—481 bgs, Philadelphia National Bank, Zanzibar—858 bgs, J Henry Schroeder Banking Corp, Zanzibar—2,085 bgs, Zanzibar
METHANOL—5 dms, B Rubinraut, Gothenburg
MICA—140 cs, J F Garneau Co, Calcutta—

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One-Man Bridge Ramp

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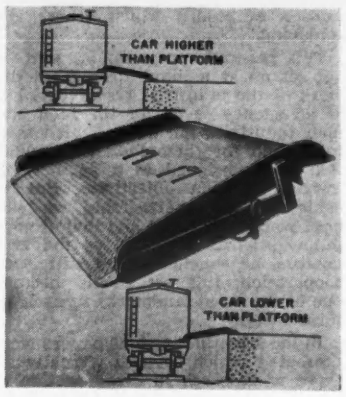

the maker says, can place this ramp and secure it in less than two minutes; no lifting is required. Particulars can be got from Elizabeth Iron Works, post office Box 360, Elizabeth B, N. J.

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20 cs, Asheville Mica Co, Calcutta—119 cs, American Mica Works, Calcutta—145 cs, Cornelis & Suhr, Calcutta—23 cs, Whittaker, Clark & Daniels, Calcutta—225 cs, Calcutta

MIMOSA EXTRACT—10 bgs, Vermilye Co, Hull

MYROBALAN EXTRACT—10 bgs, Vermilye Co, Hull

NUTMEGS—98 cs, Catz American Co, Macassar—35 bgs, Lo Curto & Funk, Macassar—39 bgs, Norda Essential Oil & Chemical Co, Macassar—33 bgs, E Meer & Co, Macassar—33 bgs, Joensson & Cross, Macassar—35 bgs, C T Wilson & Co, Macassar—400 bgs, Singapore

NUX VOMICA—63 bgs, W F Mahneke, Madras

OITICICA OIL—149 dms, Murray Oil Products Corp, Fortaleza—518 dms, L N Jackson & Co, Fortaleza—84 dms, Grace National Bank, Fortaleza

ORANGE OIL—36 qtr cs, Messina

OXALIC ACID—4 cks, Ferro Metal & Chemical Corp, Liverpool

PAPAIN—42 pkgs, S B Penick & Co, Colombo—19 cs, S B Penick & Co, Bangkok—14 half chests, C L Huisking & Co, Colombo

PAPRIKA—360 bgs, H W Robinson & Co, Antwerp—25 bgs, J Sexton, Chicago, Antwerp—100 bgs, J D Tash & Son, Chicago, Antwerp—25 bgs, Continental Coffee Co, Chicago, Antwerp—25 bgs, R T French Co, Rochester, Antwerp—50 bgs, Schoenfeld & Son, Antwerp—638 bgs, Trieste

PARACYMENE—1 crby, G F Johnston & Co, Gothenburg

PEPPER, BLACK—1,026 bgs, Otto Gerdau Co, Cochin—896 bgs, Volkart Bros, Cochin—240 bgs, Catz American Co, Cochin—168 bgs, Otto Gerdau Co, Bombay—840 bgs, C Czernikow, Cochin—1,286 bgs, London—350 bgs, A G Dunn, Hongkong—201 bgs, Liverpool—80 bgs, Durkee Famous Foods, Cochin—2,772 bgs, International Credit Handel, Singapore—336 bgs, Trading Society, Ltd, Singapore—1,575 bgs, Singapore—White, 100 bgs, A G Dunn, Hongkong

PETROLEUM, CRUDE — 218,040 bbls, Standard Oil Co, N J, Cartagena—112,387 bbls, Imperial Oil Co, Puerto La Cruz—93,448 bbls, Colonial Beacon Oil Co, Las Piedras—114,682 bbls, California Oil Co, Las Piedras

POPPYSEED—600 bgs, Louis Furth, Inc, Rotterdam—100 bgs, Levy & Levis Co, Rotterdam

PYRETHRUM FLOWERS—250 bls, McLaughlin, Gormley & King, Dar Es Salaam

QUEBRACHO EXTRACT — 6,400 bgs, Buenos Aires—1,000 bgs, Vermilye Co, Hull

RADIUM ELEMENT—2 cs, Radium Chemical Co, Antwerp

ROSADINHA GUM—33 cs, Herman Weber & Co, Manaos

ROSEWOOD OIL—12 dms, Norda Essential Oil & Chemical Co, Manaos—20 dms, Norda Essential Oil & Chemical Co, Parintius

SARSAPARILLA ROOT—7 bls, J A Manton, Kingston—10 bls, Vera Cruz

SCHEELITE—500 bgs, Watson Geach & Co, Recife—1,927 bgs, Porto

SEED, MEDICINAL—60 bgs, S B Penick & Co, Hongkong

SEEDLAC—500 bgs, Schwab Bros Corp, Calcutta

SENNA LEAVES, MIXED—89 bls, Barclay Bank, Port Sudan

SHARK LIVER OIL—36 dms, Distillation Products, Inc, Valparaiso

SHELLAC—25 bgs, C L Camerik, Calcutta—100 bgs, Bradshaw, Praeger & Co, Calcutta—50 bgs, Dings & Schuster, Calcutta—500 bgs, Schwab Bros Corp, Calcutta—375 bgs, Calcutta—106 cs, Reuben Import Export Corp, Hongkong—25 cs, J Henry Schroeder Banking Corp, Bangkok—10 cs, Continental Commodities Corp, Bangkok—20 cs, I R Boody & Co, Bangkok—400 cs, Wah Chang Trading Corp, Bangkok—428 cs, Richard S Greenlee, Bangkok—216 cs, Bangkok

SILVER SULPHIDES—165 bgs, Watson, Geach & Co, Antofagasta

SODA CAUSTIC—22 dms, Ferro Metal & Chemical Corp, Liverpool

SORVA—390 cs, Otis Astoria Corp, Para—108 cs, Littlejohn & Co, Manaos—72 cs, Wessel, Duval & Co, Manaos—102 cs, T A Desmond & Co, Manaos—105 cs, Otis Astoria Corp, Manaos—411 cs, Astoria Pan Americana, Inc, Manaos—61 cs, T A Desmond & Co, Parintius—47 cs, H A Astlett & Co, Itacoatira—32 cs, Astoria Pan Americana, Inc, Itacoatiara—245 cs, T A Desmond & Co, Manaos—150 cs, Astoria Pan Americana, Inc, Manaos

STICKLAC—100 cs, O G Innes & Co, Singapore

TALC—4,250 bgs, L A Salomon & Bro, Bordeaux—97 bls, European Chemical & Metal Co, Genoa

TALL OIL PITCH—737 bbls, 1,022 dms, G S Ziegler & Co, Stugsund—1,398 bbls, Irving Trust Co, Stugsund

TANTALITE—100 bgs, Royal Bank of Canada, Cabedello

TAPIOCA FLOUR — 1,000 bgs, Bankers Trust Co, Parnaiba—1,666 bgs, Stein, Hall & Co, Fortaleza—1,666 bgs, Morningstar, Nicol, Inc, Fortaleza

TEASEED OIL—25 dms, East Asiatic Co, Hongkong—100 dms, Hagen Corp, Hongkong—100 dms, W R Grace & Co, Hongkong—100 dms, Arnhold & Co, Hongkong—235 dms, Universal Trading Corp, Shanghai

TEAWASTE—2,000 bgs, Citro Chemical Co, Calcutta

TUCUM KERNELS—3,307 bgs, General Food Corp, Sao Luiz Maranhao—334 bgs, Sao Luiz Maranhao—10,000 bgs, E F Drew & Co, Parnaiba—3,076 bgs, General Foods Corp, Parnaiba

TUNGSTEN ORE—545 bgs, J W Hampton, jr & Co, Cabedello—500 bgs, David Taylor & Co, Fortaleza

TURMERIC—57 bgs, Becker Mayer Seed Co, Kingston—240 bgs, W E Martin Co, Cochin—240 bgs, C Czarnikow, Cochin—240 bgs, Volkart Bros, Cochin

VANILLA BEANS—29 cs, National City Bank, Bordeaux—4 cs, Thurston & Braidich, Roseau—4 cs, Barclay Bank, Roseau—Sticks, 6 cs, N B Perry, Zanzibar

WATTLE BARK—1,118 bls, Bingham & Co, Mombasa

WOLFRAM ORE—1,270 bgs, National City Bank, Bangkok—4,358 bgs, Wah Chang Trading Corp, Bangkok

WOOL GREASE—25 dms, 25 bgs, Liverpool

ZINC OXIDE—200 bgs, D F Sallows, Puerto Plata

Baltimore

CARNAUBA WAX—27 bgs, The Farboil Paint Co, Fortaleza

CHROME ORE—6,722,065 lbs, Mutual Chemical Co, Lourenco Marques

CITRONELLA OIL—14 dms, Volkart Bros, Gallo—26 dms, Magnus, Mabee & Reynard, Gallo

ILMENITE SAND—6,800 tons, E I Du Pont de Nemours & Co, Colachel

MANGANESE ORE—5,420 tons, National City Bank, Sao Roque

SIENNA, BURNT—250 bgs, Mineral Pigment Corp, Leghorn

WATTLE BARK—2,222 bls, Vermilye Co, Mombasa

Boston

COCONUT OIL—1,176,720 lbs, First National Bank, Cebu

GELATIN BONES—3,048 bgs, Buenos Aires

GLUESTOCK—257 bls, H Remis Co, Barranquilla

MICA—30 cs, Calcutta

OSSEIN—1,021 bgs, Atlantic Gelatine Co, Antwerp

QUEBRACHO EXTRACT—7,155 bgs, First National Bank, Buenos Aires

WAX—335 bgs, First National Bank, Rotterdam

Norfolk

MANGANESE ORE—1,500 tons, E J Lavino & Co, Vizigapatum

Philadelphia

ASBESTOS, CRUDE — 500 bgs, Ehret Magnesia Mfg Co, Lourenco Marques—750 bgs, Commercial National Bank, Lourenco Marques—370 bgs, Refractory Insulation Corp, Lourenco Marques—Fiber, 525 bgs, Keasby & Mattison, Capetown

BONES, CRUSHED—5,000 bgs, Kind & Knox Gelatine Co, Calcutta

CANARY SEED—200 bgs, R T French Co, Casablanca

CHROME ORE — 5,599,885 lbs, Frank Samuels Co, Lourenco Marques

GLYCERIN — 50 dms, Irving Trust Co, Buenos Aires

MAGNESITE—37 bgs, General Magnesite & Magnesia Co, Rotterdam

MANGROVE BARK—1,218 bgs, J Henry Schroeder Banking Corp, Zanzibar

METHANOL—329 dms, Hercules Powder Co, Gothenburg

VANILLA BEANS—2 cs, Royal Bank of Canada, Roseau—18 cs, M Cortizas & Co, Roseau

WATTLE BARK—1,700 bls, Vermilye Co, Durban—1,218 bls, Bingham & Co, Mombasa—1,592 bls, Hammond & Carpenter Corp, Durban

San Francisco

COCONUT OIL—107 dms, Willets & Co, Colombo

SIENNA, BURNT—20 bbls, A J Lyon & Co, Leghorn—Raw, 20 bbls, A J Lyon & Co, Leghorn

TUNG OIL—150 dms, Pacific Vegetable Oil Co, Hongkong

Murray Heads Greater N.Y. Fund Drug Section

William J. Murray, jr., chairman of the board and president of McKesson & Robbins, Inc., New York, is in charge of the solicitation organization which will canvass manufacturers and retailers in the drug, cosmetic and liquor industries in the tenth annual campaign of the Greater New York Fund.

Burroughs Wellcome Promotes Anderson

Burroughs Wellcome & Co., pharmaceutical manufacturer, has transferred Norman H. Anderson from the post of hospital representative in Southern California to the sales staff in New York, where he will work with the hospital department.

USP Board Elects

The Board of Trustees of the United States Pharmacopeial Convention has reelected for the current year the following officers:—President, Dr. Robert L. Swain, editor of *Drug Topics*, New York; secretary, Dr. Adley B. Nichols, Philadelphia; general counsel, Herbert Levy, Baltimore.

Dr. Austin Smith, secretary of the Council on Pharmacy and Chemistry of the American Medical Association, has been elected as a member of the USP revision committee. He will serve on the subcommittees on scope, therapeutics and pharmacodynamics, and biological assays.

Philipp Bauer to Move

Philipp Bauer Company, now located at 18 East Forty-first street, New York, will move on June 2 to new and larger quarters at 2 West Forty-seventh street

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Cereal Chemists

—Continued from page 7

ized for 1948 is appropriated in full, it will be allocated by granting stations; $3,000,000 to the Department $5,000,000 to the state experiment of Agriculture for work in cooperation with the states; $6,000,000 for utilization research, and $5,000,000 for marketing and distribution research and services.

Over-All Policy

Turning to consideration of his second point, he said that a national committee and commodity committees have been set up "which are busy working out recommendations on over-all policy and on needed fields of research. We have brought the technical people in the department together to work with the committees, and we have set up a mechanism for federal-state cooperation."

In addition, he said that contacts have been made with, and recommendations received from, a number of private organizations.

Speaking of the field of primary interest to his audience, Mr. Meyer said that three commodity committees have been set up in the general grain field, but that he would concentrate on the one normally referred to as the "grain" committee.

He detailed the make-up and personnel of that committee and explained that it would work very closely with cereal chemists. In addition, he invited each of the chemists present, as well as the organization collectively, to present recommendations on research needs.

Cereal Chemistry Research

The third question, he said, "What research are we going to do in the field of cereal chemistry?" practically defied accurate answer at the moment, but he went on to give some of the problems which are being stressed in that field.

After explaining that it will not be known until after July 1 what funds are actually available, he said "the national committee should by that time have the recommendation of all the commodity committees. Then, knowing the amount of money available and the fields of work recommended, it can make recommendations to us."

He said that some of the major problems under consideration for research with regard to grain are, developing a simple, accurate test to determine the baking quality of wheat; testing of malting barley, and widespread research in new or expanded uses of grain products.

In this last connection he said that the working group is suggesting such things as increased research in the use of grain for industrial alcohol; the use of spoiled or inferior grains as a source of synthetic motor fuel; improved methods of manufacturing dextrose and its wider use as a substitute for other sugars; better oils as by-products of corn and other grain processing and the perfection of industrial oils, as well as improvement in the present edible oils.

However, he said, "to put these possible projects related to cereal chemistry in their proper perspective, I must call your attention to the fact that they must compete with other worthwhile projects in other aspects of grain, as well as in other agricultural products."

As examples of these projects, he cited such problems as disease control, insect control, weather hazards, and methods of cultivation, and such economic problems as farm management, purchasing facilities, packing and shipping, storage; wholesaling, alternative uses, types of marketing agencies, efficiency of processing facilities, grades and standards, advertising practices, pricing policy, and foreign markets.

Priority of Needs

In concluding his talk, the administrator lamented the general feeling that the work of scientists is not integrated with that of the policy makers and economists, and said that "it is my belief that the results of the Research and Marketing Act of 1946 will go far beyond the actual projects upon which we carry out research.

"We hope to act as an integrating force through which the natural and social scientists concerned with agriculture can be brought closer together and their energies directed toward those problems which are of major importance to their segments of the industry. If we, and the committees working with us, can only determine the priority of research needs in these tremendous fields we will be making a marked contribution. But we hope to go further than that and act as a clearing house of knowledge: as an agency through which the various individuals working on these problems can be appraised of results which others are achieving."

This research program, he said, is not set up as a thing apart from the work of the industrial researcher, but as an agency to do for the food and fiber industries the things which they cannot do for themselves. He added that it is designed as a partnership toward common objectives. But to achieve such a partnership we will need your cooperation and that of your fellow scientists as well as the economists, he concluded, and with such cooperation, this act should become one of the great landmarks in agricultural history.

In the scientific sessions papers were presented which covered virtually all types of research in every section of the grain and cereal industry.

Bradley on the Black Light Problem

In a discussion of the "black light" problem, William B. Bradley, of the American Institute of Baking, Chicago, said that "although a review of the literature reveals many uses of 'black light' in food plant inspection, emphasis in this paper is placed upon its ability to cause many of the constitutents in urine to fluoresce and thus to assist in the detection of contamination by rodents."

"It has been found," said the speaker, "that flour sacks contaminated with rodent urine may exhibit fluorescence even after they have been laundered, and in some of these instances it is possible by chemical means to identify urea in the fluorescent spots. Such bags, therefore, may be subject to seizure and condemnation. However, proper laundering of used flour sacks eliminates completely all signs of rodent stains."

Sulfhydryl Groups in Flour

A paper entitled "A Study of the Sulfhydryl Groups in Flours, Extracts and Doughs," written by B. D. Hites and R M. Sandstedt, of the University of Nebraska, disclosed that a method for the quantitative determination of sulfhydryl groups in flour has been developed, and discussed the effects of bleaching and dough treatments on sulfhydryls.

Jukes on Poultry Nutrition

Continuing with the discussion, a paper on "Newer Advances in Poultry Nutrition" was presented by Thomas H. Jukes, of the Lederle Laboratories Division, American Cyanamid Company, Pearl River, N. Y., in which he said that many recent studies in poultry nutrition have been concerned with vitamin and protein requirements.

"Investigations," he said, "of the amino-acid requirement of the chick indicate that nicotinic acid may be replaced by tryptophane. The presence of gelatin in the diet appears to affect the nicotinic acid requirement."

Salt Blocks for Animal Feeding

A paper entitled "Stabilizing Trace Elements in Salt Blocks for Animal Feeding," prepared by J. A. Dunn, F. G. Miller and H. W. Diamond, of the Diamond Crystal-Colonial Salt Division, General Foods Corporation, St. Clair, Mich., illustrated the technique of using radio-active compounds to demonstrate the physiological acceptability of trace minerals, such as iodine, cobalt, copper, manganese and iron in salt blocks.

Biological Availabilities of Iron

Discussion of "Comparative Biological Availabilities of Several Forms of Iron," presented by Harold Blumberg and Aaron Arnold, of the Sterling-Winthrop Research Institute, Rensselaer, N. Y., presented the results of investigations during which iron preparations were fed to groups of fifteen to nineteen rats each, in two separate experiments.

Crumb Softeners of Bread

"Work on food emulsifiers of the sorbitol ester type led to the discovery of the value of polyoxyethylene stearate as a crumb-softener and staling retarder," it was declared in a report on "The Effects of Polyoxyethylene Stearate on Crumb Softness of Bread," prepared by H. H. Favor and N. F. Johnston, of the R. T. Vanderbilt Company, East Norwalk, Conn.

Included in the report were physical and baking test data showing polyoxyethylene stearate's lack of effect on bread production procedures,

the magnitude of its effect on starch paste viscosity, and the changes in compressibility of bread with age.

Starch Hydrolyzing

In a paper on the "Evaluation of Starch Hydrolyzing Mold Enzymes," Julian Corman and A. F. Langlykke, of Northern Regional Research Laboratory, Peoria, Ill., reported that the saccharification of 2 percent soluble starch solutions with some partially purified fungal amylase preparations resulted in complete hydrolysis to glucose.

This suggested that the fungal alpha-amylase is supplemented by some enzyme component which might be assayed by its activities in the hydrolysis of maltose, the authors reported.

Several filtrates from different mold cultures were assayed for alpha-amylase content and activity in the conversion of maltose to glucose. The progress of starch hydrolysis was also followed by periodic determinations of reducing power, and by periodic assay for glucose, maltose and dextrins when these filtrates were allowed to act for prolonged periods on a starch substrate. It was stated that the same experimental techniques were applied to malt extract and to bacterial bran for purposes of comparison.

It was found that the conversion of starch to sugar when amylolytic preparations act on soluble starch substrates, was more rapid and complete the higher the maltase activity of the preparation. Fungal preparation of high maltase activity gave almost complete conversion to glucose in a twenty-four hour period, it was said, while those of lower maltase activity gave larger amounts of dextrins and maltose.

It was revealed that bacterial bran of high alpha-amylase content, and practically negligible maltase activity, gave hydrolysates of very high dextrin content, and the hydrolysate resulting from the use of malt extract contained maltose predominantly.

Phillips on Livestock Nutrition

Discussing "Recent Advances in Livestock Nutrition," Paul H. Phillips, of the University of Wisconsin, said that "one of the important developments is the discovery that simple nitrogenous compounds were transformed by the organisms of the rumen into usable protein."

"Interest is keen," he said, "in the discovery that growth retardation caused by corn in rations low in nicotinic acid could be counteracted by tryptophane. It has been suggested that tryptophane may be an important precursor of nicotinic acid.

"The recognition," the speaker continued, "that complete nutrition must encompass propagation has led to discoveries about the effects of nutrition upon reproduction. Swine grow well on a ration of corn, soybean meal, five percent alfalfa and salt, but this ration is inadequate for reproduction."

Malt Activity of Flour

R. J. Sumner, R. W. Selman and L. F. Marnette, of the C. J. Patterson Company, Kansas City, Mo., reported on the "Evaluation of Malt Activity of Flour by Physical Methods," and stated that the currently employed physical measurement of malt activity by means of the amylograph requires too much time and expensive equipment to be ideally adapted to routine malt control.

They carried out a series of investigations to establish a simpler and more rapid method for measuring gelatinization characteristics of flour suspensions, and studied the quantitative determination of the properties of gels produced by controlled incubation and gelatinization. The results were presented and compared with those obtained by existing methods of routine malt control.

Preparation of Amylase

In a paper entitled "Preparation of Amylase Active Concentrates from Mold Bran," R. L. Gates and Eric Kneen, of Kansas State College, stated that "in the investigation of the precipitation potentialities of methanol, ethanol, isopropanol, and acetone, it was ascertained that under the proper conditions any of these compounds may be used for amylase precipitation."

"Methanol", it continued, "requires low temperature (O°C) operations to obtain satisfactory recovery, while this is not mandatory for the other three compounds. Arranged in order of precipitation efficiency, based on the concentration required to give ninety percent recovery of amylase activity, they fall into the order; acetone, isopropanol, ethanol, methanol."

Spectrophotometer Use

A paper presented by O. C. Beckord and R. M. Sandstedt of the University of Nebraska, reported that equipment was developed for adapting the spectrophotometer to the study of starch gelatinization. This was described as a U-tube which permits heating and stirring of a starch suspension while it is in the path of the spectrophotometer light beam. Percent light transmitted plotted against temperature was reported to give typical gelatinization curves for starches. The curves of some common starches were shown and discussed.

Report on Malt Alpha-Amylase

Speaking on "Purification of Malt Alpha-Amylase," Sigmund Schwimmer, of Western Regional Research Laboratory, Albany, Calif., said that "studies on purification of malt alpha-amylase have resulted in preparations which are 1,000 times more concentrated than the original malt on a dry weight basis, and two hundred times more concentrated on a weight of protein basis."

He discussed the steps in the procedure for purification, which were elaborated by following the distribution of protein as well as of alpha-amylase, and said that work is underway to obtain a molecularly homogeneous protein showing alpha-amylase activity.

Ascorbic Acid Effect

Discussing "The Effect of Ascorbic Acid on the Amylolytic Enzymes of Barley and Malt," a paper prepared by Paul R. Witt jr. and L. R. Hedrick, of the Northwestern Malt & Grain Company, Chicago, declared that "neither ascorbic acid nor dehydroascorbic acid, prepared by oxidation with purified oxidase, affects the activity of purified malt alpha-amylase.

"In the presence of copper, however," the authors said, "ascorbic acid inhibits the activity of alpha-amylase, the effect depending on the copper concentration; inactivation is almost complete with 2 p.p.m. of copper. These inactivating effects can be partially overcome by means of dehydroascorbic acid and can be largely prevented by the additon of calcium salts."

Sanitation Committee Report

The report of the committee on sanitation was presented by Niles H. Walker, of the National Biscuit Company, New York, who gave a brief resume of the work done by government agencies and industry in the development of procedures for examining foods for extraneous materials.

Methyl Bromide Effects on Flour

Reporting on the "Effect of Methyl Bromide Fumigation on Flour," a paper prepared by Paul J. J. Hermitte and J. A. Shellenberger, of Kansas State College, stated that "flours subjected to methyl bromide frequently develop objectionable odors."

The authors said that research was undertaken to determine the cause of this phenomenon, and concluded that "methyl bromide reacts with the flour proteins to form products with unpleasant odors."

Proprietary Association

—Continued from page 7

dents, and A. K. Barta of Washington, D. C., secretary-treasurer.

One of the guest speakers, Charles W. Crawford, associate commissioner of the Federal Food and Drug Administration declared that there is an epidemic of "serious violations by unscrupulous adventurers in the business of furnishing cure-all therapeutic devices."

Mr. Crawford said that although the vast majority of firms in the food and drug industry "is doing an honest business," there is a "small fringe that cannot be catalogued as law-abiding."

Lowell B. Mason, Federal Trade Commissioner urged the enlargement of trade practice conference procedure to help business men solve the problem of complying with government rules and regulations. He charged that "hit-and-run" prosecutions of individual cases in an attempt to enforce the law "often prove inadequate protection to the public and the business man."

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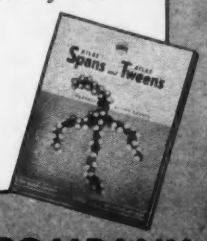

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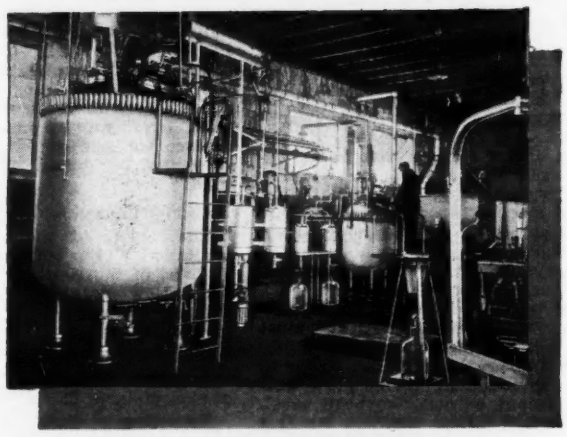
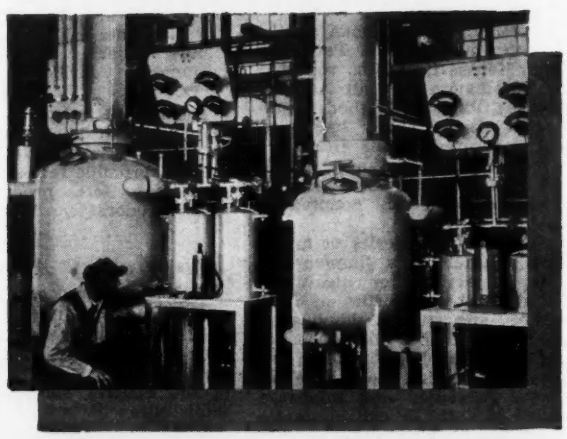
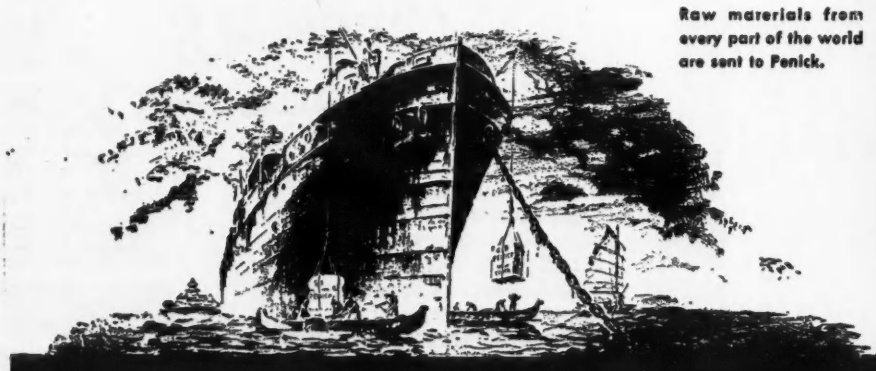


Partial view of Distillation Room.



Partial view of high vacuum fractionation department.



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Botanical Drugs, Spices, Gums

All signs of stability have been removed from the market on condimental and flavoring botanicals. The deterioration of the price structure continued last week, unabated and without any suggestion of the end to price declines being in sight. In the medicinal drug section of the market, price movements slowed down substantially but the market still lacked that buying support which alone can check the present tendency toward price shading. The purchase of medicinal drugs is more than ever on the basis of price—which means an expanded competition among dealers.

Demand in all branches of the market was very slow last week. Buyers traded only when emergency led them to lay aside reserve that immediate needs might be filled. In the main, however, buyers were reserved and were disposed to await developments connected with the new crops now in the process of collection everywhere in the northern hemisphere.

Inventories of most dealers are now well underway and while the figures compiled at this time show a carryover larger than it was last year at the corresponding time, it still will be conservative in size and of itself insufficient to become the basis of true price weakness in the market as a whole.

Reports from foreign countries supplying this market with botanical drugs are still rather sketchy; certainly insufficient to be an assured basis upon which to pose a sound opinion regarding the extent of collections and probable prices. This much may be said: The one thing that foreign countries need is American dollar credits, and it is therefore likely that those supplying botanicals of all kinds will seek an expansion in their export trade in those articles.

One thing those countries might do probably won't be done—at least to the extent that they could and should be done. That is for the exporters so to prepare their stocks that when they do sell them to the United States, the merchandise sold will be passed promptly by the Food and Drug Administration and immediately released for sale to consumers in this country. The detentions in the past year have been huge. They are still large. But in the crop year of 1947-1948, they should be much smaller; they will be if the shippers do the few, simple things that will produce merchandise of proper quality.

Balsams

Copaiba—Prices were reduced to 85c. to 90c. per pound, continuing the downward movement in quotations now continuous for several weeks. Total imports in 1946 were 157,761 pounds, which compares with 145,412 pounds imported in 1945.

Fir—Prices remained steady. So did demand. Importations of Canadian balsam in 1946 totaled 7,252 pounds, comparing with 7,885 pounds for all of 1945.

Peru—The market remained relatively steady under fair request. Total imports in 1946 were 78,885 pounds, against 189,972 pounds in 1945.

Tolu—Fairly steady but still feeling the effects of more competition developed in parallel with greater availability on spot. Imports in 1946 totaled 146,951 pounds; in all of 1945 they totaled 108,958 pounds.

Barks

Cinchona—Total imports in 1946 were 952,257 pounds, which compares with 7,317,999 pounds in all of 1945.

Cocillana—Further imports strengthened the situation in supplies to be needed come next Fall and Winter. The amount landed last week totaled 353 bags and came from Mollendo, Peru.

Condurango—The first importation for many weeks was reported last week, being 65 bags that came from Paita, Peru, that reached a very firm if mainly inactive spot market.

Beans

Vanilla—Preliminary reports concerning new crop Bourbon beans intimate that the total production may be the smallest in years because of the poor condition of the vines and the failure of natives properly and completely to pollenize the flowers at the proper time. It may be recalled that a recent news item in Ralliement, published in Tananarive, Madagascar, stated that the natives had refused to do the pollenization work. Conditions generally prevailing in French Oceanica have not been propitious for the growing of a normal sized crop of vanilla beans. Of course, the reports may overstate the actual situation and only the final event can prove or disprove them. Meanwhile, the vanilla bean market here remains in firm position though no great amount of activity is reported at the moment.

Berries

Juniper—Spot prices remained easy under the presence of rather keen competition in a comparatively slow market. The Department of Commerce report in importations provides the following figures under the designation "Sloe or Juniper Berries":—

Market Trends

Prices Advanced

Drugs

Belladonna leaves, 10c. per lb.

Other Articles

Celery seed, Indian, ½c. per lb.

Prices Reduced

Drugs

Aloe, Cape, 3c. per lb.
Copaiba balsam, 10c. per lb.
Dandelion root, 5c. per lb.
Gum, arabic, ¾c. per lb.
benzoin, 5c. per lb.
gamboge, 10c. per lb.
Henbane leaves, 10c. per lb.
Sabadilla seed, powdered, 7c. per lb.
Valerian root, Indian, 2c. per lb.

Other Articles

Cassia, China, buds, 3c. per lb.
rolls, selected, broken, ½c. per lb.
Saigon, all medium, 3c. per lb.
4-10-4, 3c. per lb.
broken, 4c. per lb.
Yunnan, 3c. per lb.
Coriander seed, Argentine, ¼c. per lb.
Cumin seed, Persian, ½c. per lb.
Syrian, ½c. per lb.
Fennel seed, Argentine, futures, 3c. per lb.
Grains of paradise, 1c. per lb.
Nutmegs, West Indian, 7c. per lb.
futures, 8c. per lb.
East Indian, futures, 3c. per lb.
Paprika, Portuguese, 1c. per lb.
Pepper, black, spot, 3c. per lb.
Spanish, 2c. per lb.
futures, 1c. per lb.
red, Niger, 6c. per lb.
Poppy seed, Dutch, ¼c. per lb.
Sage, Cyprus, good, ½c. per lb.
Dalmatian, 1c. per lb.
Turmeric root, Alleppey, powdered, 1c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
282.4	282.6	280.9	287.8

(For Current Prices see Page 9)

Imports Detained by FDA

Week Ended May 16

New York

Aconite root, 3 bags: insect bored and contains insect filth.
Caraway seed, 110 bags: filthy.
Cassia, 550 bales: insect infestation; insect webbing and excreta.
Cassia oil, 5 drums: rosin and heavy metals.
Chamomile flowers, 84 cases: live and dead insects; filthy.
Colombo root, 220 bags: insect bored and moldy.
Cottonseed meal with castor pomace, 1,240 bags: contains a poisonous substance.
Gum tragacanth, 362 bags: sand substituted.
Mace, 56 cases: dead insects; filthy.
Nutmegs, 66 bags: moldy and wormy.
Olive oil, 4 barrels: decomposed.
Papain, 14 cases: moldy.
Pepper, 3,142 bags: excess siftings and pickings; live insects; filthy.
Poppy seed, 338 bags: filthy.
Rhubarb root, 108 cases: moldy and insect bored; insect filth.
Saffron, 9 packages: unlabeled.
Teaseed oil, 834 drums: crude oil, unfit for food, substituted.

Baltimore

Orange, lemon peel, 102 casks: decomposed.

Buffalo

Mustard seed, yellow, 563 bags: filthy.

For Late Market Developments, See Page 4

OPD—5-26-1947 65

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from New Arrivals

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- ☐ Asafoetida
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- ☐ Cocculus Indicus
- ☐ Colombo Root
- ☐ Corn Silk
- ☐ Elecampane Root
- ☐ Henbane Leaves
- ☐ Capsicum
- ☐ Jaborandi Leaves
- ☐ Jalap Root

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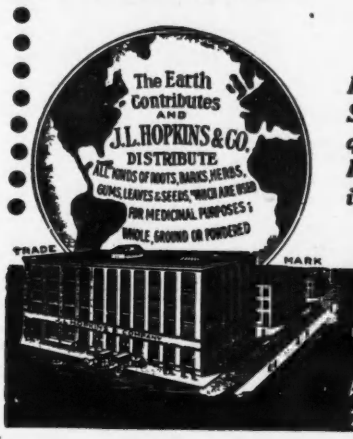
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HOREHOUND HERB
IRISH MOSS
JUNIPER BERRIES
KAMALA POWDER
LAUREL LEAVES
LAVENDER FLOWERS
LINDEN FLOWERS, with Leaves
MAHUANG, Chinese
MARJORAM LEAVES
OAK MOSS
ORANGE OIL, Sweet
ORRIS ROOT
PEPPERMINT OIL
PIMENTO, Jamaica
POPPY SEED, Indian
PSYLLIUM SEED AND HUSKS
QUINCE SEED
RHUBARB ROOT
ROSEMARY LEAVES
ROSEMARY OIL
SAGE LEAVES
SARSAPARILLA ROOT
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Imports, 1946, 1,456,919 pounds; 1945, 718,937 pounds. These data may combine the imports of juniper and sloe berries into a single figure for each year. However, the two are distinct botanical entities. Juniper berries are *juniperus communis*. Sloe berries are *prunus spinosa*.

Flowers

Chamomile—The spot market held firm even though demand was definitely light during the past week. Competition was restrained by the absence of superior stocks. Imports:—1946, 113,277 pounds; 1945, 50,612 pounds.

Gums

Aloe—Cape aloe was lower at 39c. to 40c. per pound but quotations on the other varieties were unchanged. Total imports in 1946 were 924,511 pounds, comparing with 686,583 pounds in 1945.

Asafetida—Steady prices prevailed under light request. Total imports in 1946 were 117,360 pounds, comparing with 11,024 pounds in 1945.

Benzoin—More competition developed locally and quotations were down to the basis of 60c. to 65c. per pound for Sumatra gum. Imports in 1946 totaled 315,411 pounds. None were reported in 1945.

Arabic—Prices on sorts declined ¾c. per pound, making the spot market 13¾c. to 14¼c. per pound. Total imports in 1946 were 19,816,750 pounds, against 16,812,983 pounds in 1945.

Gamboge—Thous not in good supply, the article was quoted lower at $2.30 to $2.40 per pound in some quarters.

Karaya—Total importations in 1946 were 7,764,389 pounds, while in 1945, the total was 6,990,994 pounds. Imports last week were 266 bags from Bombay, India.

Olibanum—Spot activity was along jobbing lines. Importations in 1946 totaled 1,054,997 pounds, against 312,946 pounds in 1945.

Tragacanth—The spot market was competitive and prices tended downward. Total imports, 1946, were 31,837,581 pounds; 1945, 2,994,385 pounds.

Herbs and Leaves

Belladonna—Prices for leaves were still nominal in most directions but the price so quoted was higher at $2.25 per pound. The article continued to be very scarce.

Buchu—The market was steady in price and undersupplied as to stocks. The undertone was exceptionally firm regardless of demand. Imports in 1946 totaled 120,790 pounds, comparing with 176,697 pounds in 1945.

Digitalis—Fair demand found prices maintained in firm fashion. Imports in 1946 totaled 29,076 pounds, comparing with 212 pounds in 1945.

Henbane—More adequate supplies led some sellers to name the lower price of $1 to $1.25 per pound and no more than moderate activity was noted. Imports in 1946 totaled 399,428 pounds; in 1945, they totaled 116,730 pounds.

Senna—Prices in all markets were very well maintained and considerable interest was shown in further shipments to come forward from both sources of supply. Total imports in 1946 were 3,324,225 pounds; in 1945, the total was 569,219 pounds.

Stramonium—Not much spot demand was noted but the market continued to be quite steady. Total imports in 1946 were 379,733 pounds; in 1945, the total was 297,969 pounds.

Miscellaneous

Ergot—The market continued quiet and rather more competitive than has been usual for some time past. Total imports in 1946 were 400,300 pounds, comparing with 228,208 pounds imported in all of 1945.

Grains of Paradise—Further competition was noted and prices for spot goods declined to 28c. to 29c. per pound while futures were down to 27c. to 28c.

Kola Nuts—Stocks were plentiful and prices were easy but unchanged. Imports in 1946 totaled 837,202 pounds; in 1945, the total was 249,504 pounds.

Lycopodium—The return of foreign collected material resulted in imports reaching 11,822 pounds in 1946 while in 1945, they were 1,369 pounds.

Nux Vomica—Total imports in 1946 were 3,235,454 pounds, comparing

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Echinacea

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Echinacea angustofolium derives from *Echinos*, Greek for hedge-hog, referring to the hedge-hog-like fruit head; and *angustus*, plus *folium*, two Latin words meaning "narrow" and "leaf" respectively.

Our Almanach

May 26, 1865—Civil War Ended.
May 27, 1919—First translantic airplane flight.
May 28, 1843—Noah (Dictionary) Webster died.
May 29, 1848—Wisconsin admitted into the Union.
May 31, 1793—Reign of Terror begun in France.
June 1, 1796—Tennessee admitted into the Union.

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with 1,530,576 pounds in 1945. Arrivals last week were 63 bags from Madras, India.

Papain—Stocks continued to show improvement and increase; arrivals last week totaled 56 packages from Colombo and 19 cases from Bangkok, Siam. Total imports in 1946 were 256,211 pounds, against the 315,021 pounds imported in 1945.

Roots

Colombo—Demand was along jobbing lines and made a conservative total. Arrivals last week totaled 465 pounds.

Gentian—The market was competitive and far from steady, although dealers made no further reductions in open quotations last week. Total imports in 1946 were 589,245 pounds, comparing with the total of 238,816 pounds imported in 1945.

Ginseng—Importations in 1946 totaled 16,965 pounds. In 1945 the total was 17,393 pounds. Most of it probably came from Canada.

Ipecac—Replacement costs probably prevented further price decline in favor of buyers but the market tended to be easier. Total imports in 1946 were 109,342 pounds; in 1945 they were 37,783 pounds.

Jalap—Demand increased moderately and several fair-sized transactions confirmed prices to firm position. Total imports in 1946 were 105,276 pounds, comparing with 52,311 pounds in 1945.

Licorice—The current low prices trace to the sharp rise in importations in recent months. The total of arrivals in 1946 was 57,252,408 pounds, a sharp increase over the 20,435,731 pounds entered here during 1945.

Rhubarb—Plentiful stocks has led to a much more competitive market and although open quotations lacked change last week, they seemed to be subject to shading when substantial business was proposed — which was not often last week. Total imports in 1946 were 181,664 pounds, comparing with the 1945 total of 161,815 pounds.

Turmeric—Nearby arrivals of Alleppey root were 20½c. to 21c. per pound and goods farther away could be had for 20c. to 20½c. Powdered Alleppey root on spot was slightly lower at 27c. to 28c. An arrival of 720 bags from Madras, India, was reported. Stocks of Jamaican root were replaced to the extent of 37 bags arrived last week.

Valerian—Indian root continued to decline under competition, and quotations at 40c. to 41c. per pound were believed to be subject to shading at times. Demand was moderate.

Seeds

Anise—Stocks of Mexican seed were virtually exhausted on spot. Argentine seed appeared to be pinch-hitting for the absent article which, however, will reappear on spot shortly.

Caraway—Prices were unchanged in a slow market. Holland continued to exercise price control of a sort. Arrivals from Rotterdam totaled 500 bags last week. Syrian seed of the natural variety was 20c. to 21c.

Celery—Downward price trend in recent weeks was reversed and a fractional rise in quotations placed the market at 17½c. to 18c. per pound.

Coriander—The sole change in prices for this article came in Argentine seed, which article was shaded to 5¼c. to 5¾c. per pound.

Cumin — Syrian and Persian seed declined once more, reaching the level of 26c. to 26½c. per pound under very poor demand.

Fennel — Those who perforate the pork roast with fennel seed before baking may now find pleasure and profit in the fact that the firsthand price for spot goods declined sharply last week to the basis of 8c. to 8½c. per pound. Futures were down to 7½c. to 8c., also a sharp price drop.

Poppy—Dutch seed was fractionally lower at 23¼c. to 23¾c. per pound following the arrival of 200 bags of this seed from Rotterdam, Holland.

Quince—Total arrivals in 1946 were 165,735 pounds, which compares with 106,068 pounds arrived in the corresponding period, 1945.

Sabadilla — A further revision of prices set quotations back moderately and established the spot price of 75c. to 85c. per pound for powder.

Spices

Cassia—Further declines came in prices for China and Saigon cassia. The new market was:—China buds, 22c. to 22½c. per pound; rolls, extra select, broken, 7½c. to 8c.; Saigon, all medium, 23c. to 24c.; 4-10-4, 23c. to 24c.; broken, 19c. to 19½c; Yunnan, 14c. to 14½c.

Mace—From Rotterdam, Holland, came 41 cases of mace last week. Spot and primary market prices lacked quotable change. Imports from Macassar were 257 cases.

Nutmegs — Importations were 293 bags from Macassar and 400 bags from

—*Continued on page 81*

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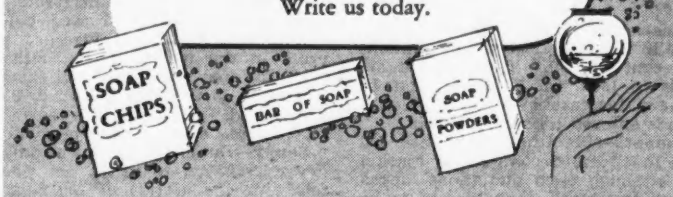

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Essential Oils, Other Aromatics

Little action was noted in the essential oils market last week, as buyers maintained their apathetic attitude of the past few months. The price structure remained fairly stable, although several oils, notably bois de rose and lignaloe wood, neutralized their increases of some days ago. The one change of real interest occurred in the case of eucalyptus oil, the price of which was forced downward by a sharp improvement of supplies unaccompanied by any wave of buying interest.

Reports emanating from Southern France indicated that, despite earlier pessimistic predictions predicated on the severity of the winter, the floral crop would be at least up to standard. In fact, it was rumored that substantial decreases in the prices of French floral oils might well take place.

Several price changes were noted in the aromatic chemicals industry, reflecting like changes in the raw materials picture. Of particular interest was the report that the synthetic musks were once more becoming available in quantity, and at prices that were beginning to approach the pre-war level. The promise that artificial castoreum would soon be in large-scale production was also a cause of some elation. Hydroxycitronellal took a very sharp drop, sponsored by the declines of the citronella market. Several important products, such as benzyl alcohol and phenylethyl alcohol, were still critically short, but it was hoped that such shortages would not be long-lived.

Market Trends

Prices Advanced

Anisic aldehyde, 40c. per lb.
Benzyl proplonate, 5c. per lb.
Methyl anthranilate, 40c. per lb.
Musk, synthetic, ketone, 45c. per lb.
Terpineol, 10c. per lb.

Prices Reduced

Bois de rose oil, 10c. per lb.
Eucalyptus oil, USP, 15c. per lb.
Geraniol, $1.25 per lb.
Geranium oil, Bourbon, $1 per lb.
Hydroxycitronellal, $4.50 per lb.
Lavender oil, French, 38-42% ester, 95c. per lb.
Lignaloe wood, 75c. per lb.
Musk, synthetic, ambrette, $6.25 per lb.
xylol, 50c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
198.0	201.0	203.5	207.6

(For Current Prices see Page 9)

Essential Oils

Bergamot—A shipment of twenty cases arrived from Messina during the past week, to add to the already sufficient stocks available. Demand for the oil was far from its potential peak, and this though the inside price of $4.95 per pound was thought to be sufficiently attractive. Reports were received that the oil could be obtained in large quantity in Italy, but limited buying interest robbed this report of much of its force.

Bois de Rose—The mild flurry of orders which two weeks ago underwrote a slight increase in the price of this oil subsided, and the oil returned to its previous inside price of $4.10 per pound. This price represented a decline of 35 percent from the quotations in effect in the beginning of 1947. It was considered significant of the lethargic nature of the essential oils market as a whole that at this price the oil, normally a fast-moving item because of the importance of its derivatives, was still inclined to accumulate in suppliers' warehouses rather than move freely. No imports arrived during the week, but it was understood that major shipments were on the way, as producers bent every effort to take advantage of the present market price.

Cassia—Five drums arrived from Hong Kong, and it was reported that much larger shipments were in transit. Stocks in this country were piling up rapidly, and buying was brisker than in most other oils—but still not so brisk as dealers had expected when they established the attractive inside price of $3.10 per pound.

Cinnamon—The tide of imports, begun some four weeks ago, rolled slowly on as two more cases of bark oil arrived from Ceylon. The small quantities of the bark oil now on hand, and the rather more considerable stocks of leaf oil, were finding a ready market. The market continued steady at $62 per pound for the bark and $1.85 per pound for the leaf oil.

Citronella—Little activity was felt in this oil during the past week. The Ceylon oil was available in bulk, as fifty-nine drums arrived from that island; but demand for this variety was halting. A shipment of forty drums arrived from Guatemala, but no further arrivals from Java were noted. Many consumers were eager to acquire large quantities of the latter oil at the new favorable price inaugurated two weeks ago: but the importation picture from Java continued confused, as speculation was rife whether the few small shipments which have arrived from that country should be construed as a promise or a tease.

Eucalyptus—This oil, in which the decreases of some five weeks ago had been neutralized by an almost immediate rally, once more broke in price, this time somewhat more sharply. Cuts of fifteen to twenty cents established the range for the 80-90 percent oil at $1.05 to $1.25, and that for the 70-80 percent oil at 95c. to $1.13. Greater supply and limited demand sponsored the decreases. Imports amounted to seventeen drums from Melbourne.

Geranium—A decline in the price of the Bourbon oil, which was available in somewhat freer quantity, established a new inside price of $13.50. A demand far below the norm and a supply which represented but a fractional part of normal pre-war stocks combined to produce a peculiarly fine balance; the more noteworthy in that, if either supply or demand singly were near the usual level, the market would be woefully out of kilter. No imports were noted during the past week.

Lavender—A further reduction was noted in the French oil of 36-42 percent ester, as an inside price of $9 per pound was announced in some quarters. Fairly large quantities of the oils were obtainable, but the apathy of the market had its effect here as elsewhere, resulting in limited buying.

Lemon—An as yet slight tightness began to develop in the supply of Californian oil. Although there was no suggestion of a real shortage—and, indeed, though some dealers had large surplus stocks on hand—in some quarters filling of orders was subject to some delay, as replacement became a bit more difficult. The import sit-

Essential Oil Imports in 1946

A report of total imports of essential oils into the United States in 1946 with comparative figures for 1945, has been released by the Bureau of Census. Import figures in pounds for various oils were as follows:

	1946	1945
Almond, bitter	33,015	.....
Anise	503,642	5,980
Bergamot	122,190	215,062
Bois de rose and lignaloe	553,547	173,397
Cajeput	14,000	27
Camphor (natural)	25,681	.....
Camphor (spec. grav. 1.07)	4,914	32,751
Caraway	4,358	18,411
Cassia	180,738	25
Cedarleaf	36,312	17,588
Cinnamon leaf	92,148	61,127
Citronella	829,665	691,506
Clove	388,014	275,038
Eucalyptus	868,586	470,219
Geranium	99,564	188,164
Grapefruit	881	7,472
Juniper	38,679	38,795
Lavender	368,803	143,851
Lavender, spike	167,244	200,257
Lemon	251	.....
Lemongrass	917,745	1,296,388
Lime	155,127	147,764
Neroli	1,296	1,620
Orange	125,248	579,945
Origanum	23,847	7,160
Palmarosa	11,495	7,795
Patchouli	11,807	4,558
Peppermint	44,490	29,857
Petitgrain	440,608	434,716
Rose*	2,083	2,571
Rosemary	150,599	117,943
Sandalwood	19,284	18,385
Thyme	16,976	20,874
Vetiver	29,576	44,861
Ylang-ylang	4,914	32,751
All other oils	1,494,302	1,434,407

* In ounces.

For Late Market Developments, See Page 4

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uation showed a sharp improvement, with a total of fifty-five cases arriving from Messina, and twenty-two cases of distilled oil from the Leeward Islands. It was also reported that the new lots arriving from Messina were of satisfactory quality—a matter which had caused some speculation, in view of the sub-standard quality of the early importations of this year.

Lemongrass—The downward spiral of this oil appeared to have come to at least a temporary halt as no changes were noted in the range of $1.85 to $2.60 per pound established two weeks ago. Inquiry for the oil showed no improvement, however, and actual buying was even more limited; meanwhile, stocks continued to flow into the country. Twenty-two drums from Cochin represented the week's importations.

Lignaloe—Although efforts were still being made to maintain a higher price for the oil in Mexico, disregard for their success was seen in the settling of the market at previous prices after a week-end flurry that saw increases ranging up to 75c. Although some dealers were still quoting in the higher figures, others tended to the inside price of $3.50 per pound, trusting that the dullness of the market would render possible replacement at a more attractive figure. Stocks continued large, and movement slow.

Lime—The distilled West Indian oil maintained its inside price of $5.35 per pound, though tendencies to raise the price were noted in some quarters as the outside price soared to $6.30. An increase of buyer interest, stimulated by the advent of the busy season in the soft drinks industry, was noted. Stocks were fair, and would probably be adequate to meet the expected demand.

Petitgrain—Prices remained steady despite the general disinterest manifest in the product. Although no imports were noted during the past week, it was reported that very large quantities of the oil were in shipment to these shores. It was felt that the impact of these large stocks must have some appreciable effect on the market, unless a sudden revival of interest in the oil were to take place. A report from the American embassy in Paraguay put the total imports during the first two months of 1947 at 43,808 pounds, valued at $99,749.

Aromatic Chemicals

Anisic aldehyde—An increase of forty cents on the inside narrowed the range to $2.60 to $2.75 per pound. Fairly steady demand was reported for this item, and the large stocks of anise oil now arriving in this country gave promise that the supply would be able to match the demand.

Castoreum—The natural product was offered in some quarters at a standard price of $39 per pound; but, on the whole, material of good quality was difficult to obtain. Reports were received that the synthetic product, which had been absent from the market for some time, would be obtainable again in several months. Tentative schedules quoted the soluble synthetic at $15 per pound, the absolute at $60 per pound.

Geraniol—A sharp decrease in the 92-96 percent product established a new range of $7.75 to $10.25 per pound. Reasonably large quantities of the product were available, but demand was reported as being disappointingly small.

Hydroxycitronellal—A short time ago, this product was unobtainable at any price. Fairly large stocks on hand last week, however, sponsored a decline in the market price to a new inside of $13 per pound—a decrease of some 35 percent from the prices prevailing in the beginning of 1947. The greatly improved situation in citronella oil was, of course, responsible for the newly-developed freedom of the market.

Ionone Ketone—The downward trend of lemongrass prices inspired a corresponding decrease in this derivative. A general drop of 30c. per pound was noted in most qualities of this product. Because of the huge amounts of lemongrass flooding the market, this item was in very good supply. Demand was on the strong side, although it could not be termed spectacular.

Ionone Methyl—Decreases of approximately 25c. per pound for the various grades were noted. As in the case of ionone ketone, lower prices prevailing for lemongrass were the cause of this downward revision. Although this product could not be described as completely free, there were sufficient quantities available to meet all normal demands.

Linalyl Acetate—This product was in extremely good supply, reflecting the large stocks of lignaloe wood, bois de rose, and petitgrain now available. Although the lethargy of the

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market cut into the potential demand, all three types of acetate were moving steadily enough, though not at the pace which had been hoped for. A somewhat peculiar situation was noted, in that the derivative of lignaloe wood was quoted at a price two dollars higher than the derivative of bois de rose, although the latter oil was currently 60c. more expensive than the former. The anomaly was explained by the fact that the bois de rose derivatives now being offered were made from the oil stocks acquired some weeks ago when the market was weaker, whereas the situation was the reverse regarding lignaloe wood. It was expected that, should the prices of the two oils in question remain reasonably steady, the acetate picture would right itself within a few weeks. The ranges for the acetate were as follows: ex bois de rose, $5.80 to $7.60; ex lignaloe wood, $7.75 to $8.40; ex petitgrain, $5.10 to $6.

Musk—Ambrette continued in particularly tight supply, although limited quantities were being offered at from $8 to $14.25 per pound. Lower figures could be heard, but they represented quantities of the product so small as to have little effect on the market. Ketone was available in quantity at stiffened prices of $4.60 to $4.95 per pound; while xylol, also available in almost unlimited quantity, showed a substantial decrease to $1.10 to $2 per pound. Tonquin grains were virtually unobtainable, though some quarters were still quoting for small lots a price of $55 to $60 per ounce.

Terpinyl Acetate—This product was available in quantity—the first time that it has been so in many months. The large stocks on hand, which were not matched by a correspondingly eager demand, sponsored a decrease of some 3c. per pound. The prime grade was being quoted at 67c. to 90c. per pound, and extra at 80c. to $1.10.

Vanillin — Although production tempo had been stepped up considerably, an eager market was ready to absorb far greater quantities than could be supplied. Prices remained steady within the following ranges: Ex lignin, $2.85 to $3.25; ex eugenol, $4.25 to $4.55; ex guaicol, $3 to $3.15 per pound.

Patent Office Will Clarify Trademark Act

The trademark division of the United States Patent Office is planning to publish a general information pamphlet on trademarks and a manual of trademark procedure in conjunction with the new Lanham Trademark Act, according to a statement made by John A. Merchant, chief of the division, at a meeting of the United States Trademark Association.

Lentheric and Squibb In Realty Transaction

Lentheric, Inc., cosmetics manufacturer, New York, has sold its factory building and land in Long Island City to the Mutual Life Insurance Company for $1,875,000. The building has been leased back to E. R. Squibb & Sons, pharmaceutical manufacturer and parent firm of Lentheric, for an original term of twenty-five years. The Mutual Life is modernizing the building at an estimated cost of $1,500,000.

Mark Allen Co. Names New Secretary and Treasurer

Richard W. Allen and Edward W. Darling have been named secretary and treasurer, respectively, of Mark Allen Company, manufacturer of shaving creams and tooth pastes, Detroit. G. L. Copeland has been appointed assistant secretary and Thomas C. Kipley assistant treasurer.

Trade Briefs

Loeb Equipment Supply Co., Chicago, has moved to new quarters at 1923 West North stret in that city.

Helene Pessl Company, cosmetics manufacturer, has appointed Raoul Fernandez, formerly with Mennen Company, director of its new export division.

E. R. Squibb & Sons International Corporation opened two laboratories during the first week in May for the production of medicines. One of the new facilities is located in Cuba and the other in Mexico.

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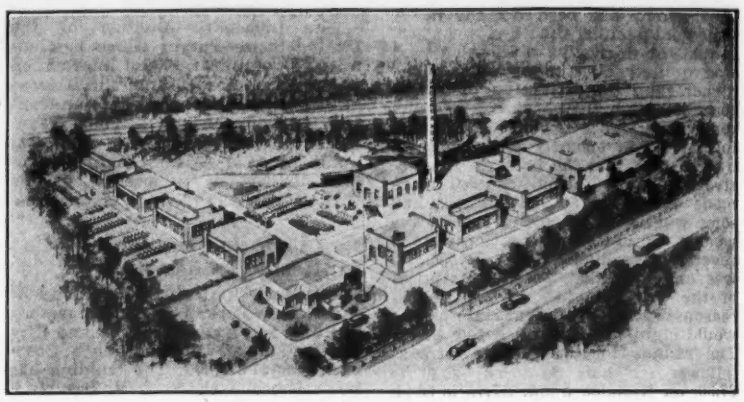

Ungerer & Co., essential oils and aromatic chemicals, New York, has started operations at its new plant at Totowa, N. J. The plant, shown in the architect's sketch above, consists of six manufacturing buildings, power house, office building and warehouse with railroad sidings. The plant is under the supervision of Frederick A. Schilling, and the flavor department is supervised by Carl J. Jensen.

Fritzsche Quarter-Century Adds Two Members

For the second time in two months, members of Fritzsche Brothers' Quarter of a Century Club celebrated the election of a twenty-five year employee to membership. The first, in March, brought Miss Anne Cunningham, of the company's research laboratory into the club. The latest inductee, Frederick F. Miller, of the shipping department, received his credentials of membership at a gala luncheon party held in the New York Athletic Club on May 6. Celebrating with Mr. Miller were the officers and directors of the firm, headed by F. H. Leonhardt, president, and the remaining active members of the club.

Rexall Promotes Wherley

Homer L. Wherley, formerly associate manager of toiletries merchandising for the Rexall Drug Company, has been named acting manager of that department.

A native of Astoria, Ill., Mr. Wherley's experience in the drug field began in 1915 when he started to work for Toler & Kost, Astoria, Ill. After serving in World War I he became connected with the H. O. Hartley Rexall Drug Stores in Galva and Astoria, Ill. Later he was connected with Ben Thisen Drugs in Oak Park, Ill.; for fifteen years worked for the Walgreen Drug Company as a store manager, supervisor and buyer, and for a year was assistant manager of the western division of Shulton, Inc. He joined Rexall in June, 1946, in the merchandising division.

Imports Banned by India

Natural and synthetic essential oils, with the lone exception of pine oil, have been removed from the list of acceptable imports by the government of India, according to information received recently. Importation of toilet goods was prohibited by the Indian government at the same time.

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Petroleum Derivatives

Little change was reported in the overall market picture for petroleum derivatives last week, with supplies of most products remaining stringent and demand generally as high or higher than in past weeks.

Prospects for improvement of the supply situation were dealt a severe blow by repeated pessimistic reports of expected further shortages in the crude petroleum market and the existent and growing shortage of gasoline.

Strike-bound refineries have added a rather grim note to the forecast summer gasoline shortage, but even the closing of those refineries which are experiencing labor difficulties does not seem to have had any loosening effect on tightly held crude oil stocks.

This steady shortage of essential crude oil, fuel oil and gasoline has exerted a severe upward pressure on prices, which has been steadily resisted in most quarters. However, major producers have reported price increases of 14c. per barrel for lower field Pennsylvania crude oil, effective May 16. Speculation was rife last week as to whether this solitary advance in quotations presages a general increase in posted prices throughout the industry, but in most quarters it was considered very unlikely that any general price increase was imminent.

With respect to petroleum derivatives, the market was showing some signs of easing in some quarters, but in view of the shortages of gasoline and crude oil, it was not expected that supplies would continue to show improvement.

Transportation, which has been hampering shipment of many materials, continued to show a very slight improvement, but tankcars, and particularly high-pressure tankcars, are still short enough to cause concern to many suppliers.

Solvents and Diluents

Aromatic Solvents—Petroleum toluol and xylol continued to be available in good supply and were reported to be receiving considerable interest. General supply and demand picture showed little change over previous weeks, with prices holding steady at former levels.

Cleaners Naphtha—Heavy demand that has prevailed during past weeks continued to be felt last week, with supplies generally sufficient to meet current requirements. As in the case of other naphthas, future supplies of this material depend largely on whether or not the predicted shortage of gasoline materializes, and few suppliers felt themselves to be in a position to foretell their ability to meet increased requirements in the future. No changes in quotations were reported during the week.

Lacquer Diluent—Good stocks reported to be available from most suppliers, with demand about equal to former weeks. Both the benzol and toluol types were said to be experiencing considerable interest, and current deliveries were being made in most quarters. One major producer is marketing a new lacquer diluent which was said to be rapidly gaining in popularity.

Rubber Solvent—Demand continued to be heavy from the automobile and tire industry, with supplies stringent in most areas, but with the majority of producers still able to make current deliveries. Suppliers in many quarters of the market were still dubious about their ability to meet increased demand in coming months if the expected gasoline shortage becomes a fact.

V. M. & P. Naphtha—Reported to be in even tighter supply than other materials in the solvents and diluents market, with the consistently heavy demand continuing to tax production facilities to the limit. Despite the generally easier feeling in the other sections of the market, prospects for additional supplies of this material in the near future were not regarded as favorable by most producers. Imminent prospects of gasoline and fuel oil shortages continue to darken the outlook for the future, but for the present most suppliers were able to maintain a satisfactory movement of materials.

Markets at Other Centers

Los Angeles.—Call for solvents and diluents was good here last week. With the exception of rubber solvent, offerings were plentiful.

Lighter Fractions

Butane — Production was being maintained at a level sufficient to keep this material in free supply. Normal summer slackening of demand has resulted in the development of good stocks on the part of most suppliers, and movement of materials was reported to be well maintained and on a current basis. No change in quotations was reported during the week.

Heptane—Demand continued to run high during the past week, with production facilities well able to meet requirements in most instances. Loss of production from strike-bound refineries necessarily resulted in a somewhat heavier burden being put on others, but no serious pinch was being felt, and current deliveries were being made in most cases.

Pentane—Stocks reported to be sufficient to meet the high demand. Production has continued at high levels for some time, and most producers reported movement of materials to be satisfactory and on a current basis. Prices remained firm at former levels.

Propane—Peak production of this gas has resulted in a slight loosening of the extremely tight supply situation that has been ruling the market for some time, but the persistent shortage of high-pressure tankcars and bottles has prevented any extensive freedom of supplies. The transportation problem which has been plaguing producers during the past month was reported to be slowly unraveling, but it is generally expected to be some time before any extensive quantities of this material will be available for spot sale. Demand was reported to be holding up well and movement of materials was reported to be satisfactory, within the limits enforced by transportation facilities.

Petrolatums and Waxes

Microcrystalline—Bulk of the output of these waxes continued to be absorbed through regular contract channels, although the extreme tightness of supply that existed a month ago is reported to be somewhat alleviated. Industrial users have continued to put a heavy demand on producers and have prevented the building up of any sizable stocks. Prices remained firm at former levels.

Paraffin—Restricting of export licenses has resulted in additional supplies of scale wax appearing on the market for domestic consumption, but additional large quantities of refined wax could be used to meet the call from the food packaging industry. Production continues at peak levels, but has been unable to meet the requirements of all buyers.

Petrolatums—Supply situation was beginning to show some signs of easing but not sufficiently to put the market in free supply or to make any prospects of free supplies imminent. The acute shortage of drums and containers that has existed for some time was also showing some signs of easing and the container situation was described as being "better but still not good." No changes in quotations were reported during the week.

Markets at Other Centers

Los Angeles.—Both crude and refined grades of paraffin wax remained scarce. Inquiry was good.

Market Trends

Prices Advanced

Petroleum, crude, bulk, at wells, Pennsylvania, lower field, 14c. per bbl.

Prices Reduced

None

(For Current Prices see Page 9)

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended May 10 totaled 236,500,000 barrels, according to the Bureau of Mines. Compared with the total of 237,140,000 barrels for the preceding week, this represents a decrease of 640,000 barrels, comprising a decrease of 820,000 barrels in stocks of domestic crude and an increase of 180,000 barrels in stocks of foreign crude. Heavy crude-oil stocks in California, not included in the gasoline bearing stocks, totaled 5,764,000 barrels, a decrease of 27,000 barrels.

For Late Market Developments, See Page 4

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Protective Coatings Materials

Naval stores prices last week showed a slight increase in certain grades of rosin, and a sudden advance in gum turpentine from 54¼ cents to 73 cents per gallon. During the week turpentine fluctuated daily in the general vicinity of 70 cents. Trading was slow, and it was felt that the reaction upward, which was as strong as the recent decline, might slow trading instead of promoting it, thus changing the previous week's sellers strike into a market facing buyer resistance.

In view of the decline in vegetable oil prices and their more general availability, oil modified alkyd resin producers are reducing prices by approximately 10 percent. Some of these reductions have already gone into effect, and others will be effective June 1.

The general supply situation is beginning to improve as the flow of materials from naval stores and synthetic resin plants whose strikes were settled a couple weeks ago, are again entering the market. Settlement last week of a strike in petroleum plants in Texas which had knocked out 30 percent of the channel black output came as a welcome event to rubber manufacturers whose inventories were becoming critical.

Pure cadmium yellows are reaching the market after resumption of production about a month ago, and the production of pure cadmium reds was predicted to resume in another month.

Other materials which last week saw price reductions were destructively distilled turpentine, certain cadmium lithopones, and soybean protein.

Lead, zinc, and titanium pigments remained critical in supply, and prices were firm. Antimony oxide was reported to be in ample supply as was also the common extender pigments.

The shellac market was reported to be unusually quiet, foreign markets were easing off, and the demand here was very light.

Organic colors were still very tight and iron oxides red, brown, and black were reported scarce. Yellow iron oxide was easing considerably, and domestic ochres were readily available.

General conditions in the plastic industry were characterized by a marked decline in demand, and the industry was suffering from a shortage of methanol. Formaldehyde was somewhat more freely available last week, and alkyl substituted phenols were still scarce.

Market Trends

Prices Advanced

Gum turpentine, 13½c. per gal.
B rosin, 25c. per 100 lbs.
D rosin, 25c. per 100 lbs.
E rosin, 35c. per 100 lbs.
F rosin, 84c. per 100 lbs.
G rosin, 60c. per 100 lbs.
H rosin, 59c. per 100 lbs.
I rosin, 59c. per 100 lbs.
K rosin, 59c. per 100 lbs.
M rosin, 59c. per 100 lbs.
N rosin, 30c. per 100 lbs.
WG rosin, 20c. per 100 lbs.

Prices Reduced

Wood turpentine, 15c. per gal.
Sulphate turpentine, 10c. per gal.
Soybean protein, 2½c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
175.0	175.0	179.8	140.2

(For Current Prices see Page 9)

Prime Pigments

Antimony Pigments — Antimony oxide was in good supply last week relative to demand. The government continued to maintain allocation regulations on the exportation of this pigment. Since antimony metal may not be exported except under Federal regulation, continuation of export regulations on the pigment prevents foreign interests from buying the oxide and reducing it to metal.

Antimony Sulphide—Demand has fallen off appreciably since the war when it was in great demand for camouflage paints because of its infrared reflecting properties. It is, however, still under government allocation regulations for both domestic and export uses.

Cadmium Reds—CP cadmium reds were expected to be back in production within thirty days. Cadmium lithopones of all shades were in good supply. Prices held firm on all shades except for a slight reduction on medium, light and orange red.

Cadmium Yellow and Orange Pigments—These pigments were readily available. Prices were firm at $2.40 for pure yellows of all shades, and 85c. for yellow cadmium lithopones of all shades.

Phthalocyanine Colors—Blue and green phthalocyanine colors remained in tight supply with prices firm. Production was affected by the critical phthalic anhydride situation. No consumer resistance has appeared in the market for these or other organic colors because of the short supply.

Metallic Pigments—Stearates used to coat aluminum powder and paste particles are easing in supply and prices have been reduced on stearic acid and subsequently on stearates. Other raw materials entering into manufacture of aluminum powder pigments are not in abundance. Powder production is curtailed by the necessity of replacing worn equipment, and the greatly increased postwar demand, together with its extended use in roof coatings, has produced a fairly tight market on these materials. These pigments are being shipped as fast as manufactured, and the producers have no chance to build up significant inventories.

Bone Black — Production of all grades of bone black during March, according to the Bureau of Census, totaled 1,069 tons, an increase of 141 tons over last month, and a decrease of only 4 tons as compared with the same period in 1946.

Carbon Black—Settlement of the twenty-day strike in the oil fields of the Texas Panhandle which threatened tire production for lack of channel black, was accomplished last week. These plants supplied approximately 30 percent of the natural gas used for the production of channel black, and settlement of the strike eliminates a barrier in tire production by that amount. It was reported that tire manufacturers during the last two weeks have been getting only about 50 percent of the black which they require. Full production of gas will get under way fairly promptly, and it is expected that two or three weeks will elapse before channel black plants are again able to operate on a full capacity schedule.

One large producer of synthetic rubber which depended on petroleum company production of butadiene in this area may not resume production until this chemical is again available from the reopened petroleum plants. Akron rubber plants which consume millions of pounds of channel black reported that their inventories were nearing a critical stage. From forty to fifty pounds of channel black are used in compounding 100 pounds of rubber.

Umber—A new company was formed for the purpose of strip mining the umber deposits of about 100 acres in Pulaski township, Pennsylvania. These deposits are reported to be the only umber deposits south of the Arctic Circle.

Lead Pigments—The lead situation continued very tight and dealers were allocating available supplies to customers. No price changes took place last week, and the backlog of unfilled orders remained heavy.

Zinc Pigments — Zinc oxides and sulphides remained tight. No real change in the supply situation has developed, and prices remained firm. Demand far exceeded the supply.

Chrome Colors—Demand from the paint industry was reported to have slackened considerably, and inventories of chrome yellow were fairly heavy.

Fillers and Extenders

Prices on extenders remained firm last week with fair demand. Barytes and magnesium silicate were still somewhat tight; silica and whiting were in abundant supply; mica was available, but certain grades were

For Late Market Developments, See Page 4

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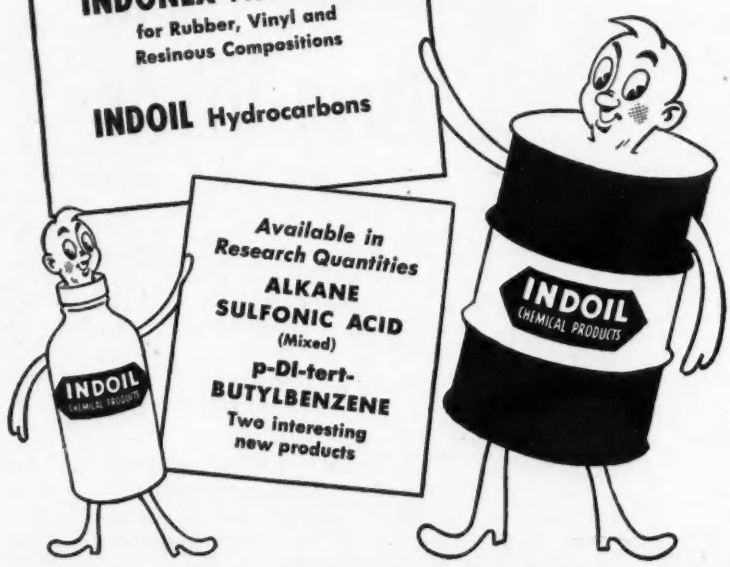

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tight. Imported last week were 3,520 bags of crude asbestos from Lourenca Marques, 120 bags from Capetown, and 1,280 bags from Beira. Fiber asbestos imports amounted to 4,364 bags from Capetown. Other imports were 4,347 bags of talc from Bordeaux and Genoa, and 5,561 tons of gypsum from Windsor and Walton.

Bentonite shipments were reported by producers to the Bureau of Mines to have been increased 5 percent in 1946. The major markets for this material are the foundry and petroleum industries which consumed approximately 90 percent of the total tonnage. It was reported that the petroleum industry used 65 percent of the bentonite clay produced for drilling, filtering and decolorizing oils; 27 percent was used for foundry sand bond, and the remaining 11 percent used in scattered industries such as paint and so forth.

Synthetic Resins

In the critical raw materials supply situation with which the plastics industry seems always to be confronted, methanol was last week the prime bottleneck. Formaldehyde which has been scarce, was of less concern than methanol. Certain phenols such as the alkyl substituted type and the cresols remained very short in supply.

Demand for urea and melamine plastics has shown a considerable decline, but this caused no particular concern to manufacturers because it was felt that recent demands were abnormal, and that the current decline was in the direction of a more normal and healthier position. Raw material supply, inventories, demand and deliveries would thus be in better balance, it was felt.

Despite a general decline in the plastics industry, it was reported that there is an active interest and inquiry for future delivery, with casting manufacturers redesigning and releasing orders for new molds.

Alkyds—The easing linseed, tung, soybean and other vegetable oils market with consequent lowered prices has relieved the pressure from oil shortages on the alkyd resin market. The lowered price on glycerine together with these declining oil prices made it possible for alkyd resin producers to lower the price of these resins by approximately 10 percent. Some of these price changes went into effect immediately, and others will not go into effect until June 1.

Insofar as the availability of these materials was concerned, the industry was still handicapped by insufficient phthalic anhydride, which remained critical. Some slight relief in this direction was manifested in some quarters due to slackening demand. The more abundant oil supply also provided the producer of glyceryl phthalate oil modified resins with some greater freedom of choice as to the type of resins manufactured.

The general attitude regarding oils, of which these alkyd resin price reductions is a reflection, was that the downward trend would not reverse itself, and still lower prices could be expected.

Phenolic and Maleic Resins—Maleic resins remained in critical supply with firm prices. The phenolic resin picture remained essentially the same as it has been in recent weeks, with paradihydroxydiphenyls in free supply and alkyl substituted phenols and cresols in very tight supply.

Ester Gum—Prices on ester gum remained firm last week in spite of the reduced prices of rosin and the improved glycerine supply. Firming of the rosin market is expected to continue the steady price picture on ester gum.

Miscellaneous

Shellac—Last week imports of shellac, to add to the already heavy inventories of manufacturers, amounted to 1,180 cases and 1,040 bags. There also was imported 500 bags of seedlac, 100 cases of sticklac, and 475 bags of buttonlac. Imports were from Calcutta, Singapore, Hongkong and Bangkok.

Casein—Domestic casein remained in the price range of 24½c. last week, with no interest in Argentine material.

Soybean Protein—Soybean protein was reduced in price 2½c. a pound in carload lots with proportionate reductions in smaller quantities. Soybean industrial flour was also reduced. Both materials were in good supply with prompt shipments being made to the paper coating, floor coating and water paint industries.

Naval Stores

It was reported that approval of government price support for naval stores was granted by the board of directors of the Commodity Credit Corporation. This approval which awaited only determination of what proportion of the unit price support would be applied for turpentine and what proportion for rosin, was revealed to amount to $119.02 per unit. A unit comprises 1,400 pounds of rosin, grade K, and 50 gallons of turpentine.

For the year April 1, 1946 to March

Lacquer Sales In Jan.-March

Sales of lacquer for the first quarter of 1947, as compared to the first and last quarters of 1946, were as follows, according to reports to the Bureau of Census representing 158 manufacturers (approximately 84 percent of the industry):—

	1947 First quarter	1946 Fourth quarter*	1946 First quarter
Gallons ..	18,221,940	18,529,865	14,103,970
Value	$31,556,035	$28,959,200	$21,543,209
Clear lacquers—			
Gallons ..	4,450,299	4,765,080	4,118,637
Value	$8,128,333	$7,834,788	$6,603,679
Pigmented lacquers—			
Gallons ..	5,176,593	4,955,084	3,803,679
Value	$14,406,046	$12,278,101	$8,857,840
Bases and dopes—			
Gallons ..	1,024,363	1,034,544	922,461
Value	$1,532,147	$1,456,936	$1,155,595
Thinners—			
Gallons ..	7,570,685	7,775,157	5,259,193
Value	$7,489,509	$7,389,375	$4,926,115

* Revised.

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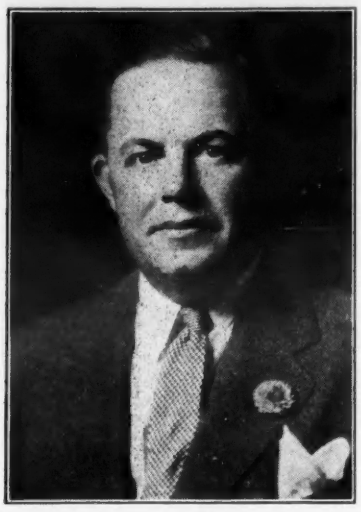
59 BEEKMAN STREET, NEW YORK CITY
DISTRIBUTORS: THOMPSON-HAYWARD CHEMICAL CO., KANSAS CITY, MO., AND BRANCHES

Wesco Division Head



Milton K. Pine has been appointed central division manager of Wesco Waterpaints, Inc., East Boston, Mass. Formerly he was Chicago manager for Muralo Company. Mr. Pine's headquarters will be in Matteson, Ill. He is a past president of the Chicago Paint, Varnish and Lacquer Association and served two terms as regional vice-president for the national association.

31, 1947, production and consumption of rosin and turpentine was some 18 percent higher than the previous year. Production of gum turpentine during this period was 270,286 barrels, an increase of 11 percent; steam distilled turpentine production amounted to 167,659 barrels representing an increase of 30 percent; and sulphate turpentine increased 16 percent to 127,491 barrels.

Production of gum rosin amounted to 752,535 drums (250 pounds to a drum), and wood rosin production was 967,713 drums.

The unstable prices on gum turpentine were attributed to unsettled market conditions, and it was predicted that prices would settle somewhere around 65c. per gallon.

Wood Rosin—The markets on wood rosin last week were reported to be as follows:—

	Per 100 lbs., net—Southern plant, carloads	Per 100 lbs., net—F.o.b. New York, ex wharf less carloads
B	$5.50	$6.95
FF	7.00	8.45
G, H, I	8.10	9.55
K	8.10	9.55
M	8.15	9.60
N	8.20	9.65
WG	8.25	9.70
WW	8.30	9.75
X	8.40	9.85

Turpentine—Gum turpentine prices fluctuated considerably last week, rising from 54½c. per gallon to 73c. per gallon by Monday, after which a slight downward trend was again apparent.

Prices on destructively distilled turpentine were reduced last week to 55c. per gallon, works, south, in tanks; 61c. in carlots, same basis, drums extra, and 62c. in less carload drums. The New York ex-warehouse price was quoted at 70c. per gallon.

Steam distilled turpentine could be bought f.o.b. southern plant at 60c. per gallon in tankcars. The New York market was 80c. to 85c. in drums, ex warehouse.

Savannah, May 22.—Following is a record of the rosin market for the week:—

	Price per unit—Low of range quoted				
	Fri.	Mon.	Tues.	Wed.	Thurs.
B	$6.75	$6.75	$6.75	$6.75	$7.00
D	6.75	6.75	6.75	6.75	7.00
E	6.75	7.00	7.00	7.00	7.10
F	6.76	7.10	7.10	7.10	7.60
G	7.00	7.30	7.30	7.30	7.60
H	7.01	7.30	7.30	7.30	7.60
I	7.01	7.30	7.30	7.30	7.60
K	7.01	7.30	7.30	7.30	7.60
M	7.01	7.30	7.30	7.30	7.60
N	7.30	7.30	7.30	7.30	7.60
WG	7.40	7.40	7.40	7.40	7.60
WW	7.70	7.70	7.70	7.70	7.70
X	7.70	7.70	7.70	7.70	7.70
	Drums				
Sales	...	29	...	...	39
Receipts	293	30	754	168	43
Shipments	...	...	...	...	...
Stocks	5,602	5,858	6,612	6,780	7,211

Savannah, May 22.—Following is a record of the turpentine market for the week:—

	Bulk gallons—Cents.	Sales.	Barrels—Receipts.	Shipments.	On hand.
Friday	54¼	...	176	397	1,185
Monday	73	67	...	11	1,174
Tuesday	68	375	176	442	908
Wednesday	70	162	144	224	828
Thursday	67¾	9,500	280	...	1,108

On a Bicycle built for Two

USE 2480 GLYPTAL*

On a bicycle built for two—or one—or in finishes for venetian blinds, refrigerators, washing machines and other electric appliances, use Glyptal alkyd resin 2480. This general-purpose vehicle for baking finishes puts a gleam in the customer's eye. Its very fast baking speed saves finishing time on products that must resist oil, gasoline, water, and weather.

G-E GLYPTAL
ALKYD RESINS

A G-E specialist is always available to discuss your paint problems. Just write to Section RIMA-573, Resin and Insulation Materials Division, Chemical Department, General Electric Company, Schenectady 5, N. Y.

Properties of 2480 Glyptal*

Solids content	49–51%
Solvent	Solvesso No. 2 & 5% Butanol
Viscosity	Z1–Z2
Color (Hellige)	1–2
Acid No. of solution	4–5
Pounds per gallon	8.2
Pigment compatibility	Excellent
Air dry—setting time	Fast
Through dry	Good
Baking speed	Very fast
Hardness	Very good
Flexibility	Very good
Gloss	Excellent
Water resistance	Very good
Oil and gasoline resistance	Excellent
Weather resistance	Excellent
Specific gravity (resin)	1.15
Phthalic anhydride (resin)	40%
Rosin or derivatives	None
Oil acids content	35%
Type of oil	Dehydrated castor

*Reg. U.S. Pat. Off.

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#65 REFINED EXTRA WHITE
#67 SEMI-REFINED

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- GIVES HIGHER LUSTRE
- GREATER DURABILITY
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- MORE WATER RESISTANCE

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KRONITEX AA, (Tricresyl Phosphate)

METHOX (Dimethoxy Ethyl Phthalate)
(Dimethyl "Cellosolve" phthalate)

ETHOX, (Diethoxy Ethyl Phthalate)
(Di "Cellosolve" phthalate)

DIOCTYL PHTHALATE

KAPSOL, (Methoxy Ethyl Oleate)

KP-23, (Butyl "Cellosolve" Stearate)

PHOSPHORUS TRICHLORIDE

PHOSPHORUS OXYCHLORIDE

ANHYDROUS ALUMINUM CHLORIDE

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For plasticizers, represented in New York, New Jersey and Connecticut by Stoney-Mueller, Inc., Lyndhurst, N. J.

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Woburn, Mass. Kearny, N. J. Moore Haven, Fla.
No. Woburn, Mass. Toronto, Canada Lake Wales, Fla.

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SPECIFICATIONS—C589

Solids	60% in M.S.
Viscosity	T-U(G-H)
Wt. per Gal.	7.75 lb.
Color	6-8 (Gar.)
A. V.	3-5

Remember Crown Oil Alkyd Resins . . . for quality. Technical data and other pertinent information furnished on request.

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Purchasing Agents Annual Meeting June 2

The National Association of Purchasing Agents will hold its annual convention June 2 to 4 at the Waldorf-Astoria hotel, New York. Ernest H. Hawkins, of E. I. du Pont de Nemours & Co., Wilmington, will be general chairman of the convention, which will feature "Inform-a-Show Exhibits" of new products and processes of interest to all purchasing men. Program for the convention will be as follows:—

Monday, June 2

"How Much?" . . . "When?" . . . and "For How Much?" Have Priority on Profits—and Losses, by George W. Aljian, president, of National Association of Purchasing Agents.

"Industry's Views on the Trends of Production and Prices," by Robert R. Wason, president of Manning, Maxwell & Moore, Inc., Bridgeport, Conn.

"Steel: How Much? . . . When? . . . For How Much," by David F. Austin, vice-president of the United States Steel Corporation, Pittsburgh, Pa.

Tuesday, June 3

"Critical Chemicals and New Chemical Developments," J. Oostermeyer, president, of the Shell Chemical Corporation, San Francisco, Calif.

"Legal Geography of Prices," by H. Thomas Austern, of Covington, Burling, Rublee, Acheson and Shorb, Washington, D. C.

"The Labor Situation: The Trend of Labor Costs and Its Effect on Prices," by Leo H. Wolman, director, of the National Bureau of Economic Company, Baltimore, Md.

"Containers: How Much? . . . When? . . . For How Much?"

"Metal Containers," William Stolk, vice-president of the American Can Company, New York, and F. T. Barton, president of Jones & Laughlin Steel Barrel Company, Pittsburgh, Pa.

"Glass Containers," R. R. Underwood, president, of the Knox Glass Associates, Inc., Knox, Pa.

"Paper Containers," by J. H. MacLeod, vice-president of The Hinde & Dauch Paper Co., Sandusky, O.

Wednesday, June 4

"Lead," by F. E. Wormser, vice-president of St. Joseph Lead Company, New York.

"Copper," by C. Donald Dallas, president of Revere Copper and Brass, Incorporated, New York, and Louis S. Cates, president of the Phelps Dodge Corporation, New York.

"Paper," by Cola G. Parker, president, Kimberly-Clark Corp., Neenah, Wisc.

"United States Dependence on Foreign materials: How Much? . . . When? . . . For How Much?" by George Stuart Brady, materials consultant, Washington, D. C.

"The Foreign Political Situation: Effect on United States Prices," by A. W. Zelomer, president of International Statistical Bureau, Inc., New York.

Snyder Chemical Resin Plant Constructed

The recently formed Snyder Chemical Corporation, has completed its first plant at Bethel, Pa., for the manufacture of synthetic resins and plastics. The plant, which has started production of phenolic resins has an annual capacity in excess of 10,000,000 pounds.

Among the products to be manufactured are "Synco" phenolic resins and molding powders. The resins are said to be characterized by an absence of color in the cured resin; rapid cure; lack of evolution of volatiles during cure as well as freedom from odor and taste.

Officers and members of the new firm are:—Francis H. Snyder, president; Denton Anderson, vice-president; H. L. Shepard, jr., treasurer; Benjamin R. Sturges, secretary; John P. Sturgis, sales manager, and L. Spiwack, plastics engineer.

Borden Co. Commemorates Its 90th Anniversary

The Borden Company, New York, is celebrating its ninetieth anniversary during May. In connection with the anniversary the company is distributing "The Story of Gail Borden."

The new publication tells how the company's founder developed the first practical process for condensing milk. Then, with the help of Jeremiah Milbank, a New York banker, Gail Borden established his business and began selling condensed milk. It still is one of the company's leading products.

In the ninety years of its history, Borden's has branched into many fields. Today the company sells a complete line of dairy products, malted milk, mince meat, chocolate syrup, an instant coffee, casein and urea resin adhesives, soybean products, pharmaceuticals, animal and poultry feed supplements, and many other products.

Buffalo Paint Club Headed by Mather

Richard B. Mather, of Pratt & Lambert, Inc., was elected president of the Buffalo Paint, Varnish & Lacquer Association at the May meeting held in the Sheraton hotel.

Other officers elected were vice-president, Harry G. Burke, of Devoe & Raynolds Company; treasurer, Earl Rowswell, and secretary, Edward J. Butler, of McDougall-Butler Company.

Elected to the executive committee were Homer G. Steele, of the Glidden Company; Albert R. Schuster, of Durez Plastics & Chemicals, Inc.; Thomas D. Holder, of American Can Company, and Herbert G. Schlegel.

N.Y. Paint Club Sports Outing June 17

The annual sports outing of the New York Paint, Varnish and Lacquer Association will be held at the Bonnie Briar Country Club, Larchmont, New York, on Tuesday, June 17.

Northwestern Paint Technicians See Film on Color Industry

The Northwestern Paint & Varnish Production Club, of St. Paul and Minneapolis, Minn., viewed a motion picture entitled "Portrait of an Industry" at its May meeting.

Presented by the Calco Chemical Division of the American Cyanamid Company, the film emphasized the use of color in every industry and the effect of color chemistry upon modern living. It showed Calco's laboratories and manufacturing plant and illustrated the step-by-step production of colors.

Wilmington Chemical To Move Sales Office

Wilmington Chemical Corporation, Wilmington, Del., announces the transfer of its main sales office from 10 East Fortieth street, New York, to One South Heald street, Wilmington, effective May 30. This move, which will consolidate the sales office, plant, and laboratory at one location, is anticipated to provide improved service to the rubber, plastics, and other industries which Wilmington Chemical now serves.

Reynolds Metals Shuts Longview Aluminum Plant

Reynolds Metals Company will suspend for approximately one year operation of its aluminum plant at Longview, Wash., according to a recent announcement.

During the suspension electrolytic equipment will be remodeled with a view to improving efficiency and productivity, a company statement said.

Murray-Williams Moves

Murray-Williams Color & Chemical Company has moved its plant and offices to 353-361 Boyden avenue, Maplewood, N. J., where it is intended to enlarge production facilities and install new equipment. Telephone number at the new location is South Orange 2-3892. The company was formerly located at 14 Vandewater street, New York.

Trade Briefs

Philippines will require quarterly 100,000 gallons of paint for outside work and 75,000 for interiors in their proposed program of rehabilitation. The requirements are estimated on a two-year basis.

Sleight Metallic Ink Company of Pennsylvania, Inc., and Eastern News Ink Company have appointed Murray A. Beckford as assistant to the president. Mr. Beckford was formerly sales and advertising manager of Frederick H. Levey Company.

B. F. Goodrich Company, Akron, Ohio, has introduced a lightweight industrial apron made of "Koroseal" film, which is said to be resistant to acids, greases, oils, caustics, fats, blood and soaps and can be sterilized in disinfecting solution.

Schoellkopf Medal Presented to Dana

Dr. Leo I. Dana, research manager of The Linde Air Products Company, New York, received the Jacob F. Schoellkopf Medal of the American Chemical Society's Western New York

Leo I. Dana

section at a meeting in the Lafayette hotel, Buffalo, on May 20.

The medal, which was awarded to Dr. Dana for his contributions to cyrogenics, was presented by Dr. Wesley Minnis, director of research and development for National Aniline Division of Allied Chemical & Dye Corporation, chairman of the Western New York section. Dr. Brian O'Brien, director of the Institute of Optics, Rochester University, spoke on "Dr. Leo I. Dana, the Man."

Under Dr. Dana's leadership a wide variety of products important in industry and in the home have been developed. These include 'Prestone' anti-freeze and associated products for automobile cooling systems; 'Prestone motor oil,' the first truly synthetic lubricant marketed in this country; and an improved quality of synthetic sapphire, that promises to free America from dependence on Europe for jewel bearings.

Activated Carbon Research Planned

A new research group has been established at Mellon Institute, Pittsburgh, to study industrial applications of vapor-adsorbent activated carbon. The group is part of a fellowship sponsored by Carbide & Carbon Chemicals Corporation.

It will cooperate with users of vapor adsorbent carbons to improve equipment and processes for the recovery of solvent vapors, to study methods for the purification of industrial gases and deodorization of air, and to study industrial processes for the separation of materials in the vapor phase.

To aid these studies, a versatile, new experimental pilot plant for solvent recovery with activated carbon has now been installed. Automatically controlled, this new pilot plant replaces a manually-operated unit, and can duplicate accurately the conditions in industrial solvent recovery plants using 'Columbia' activated carbon. Engineering data thus obtained make possible design improvements for new plants and operating economies for plants now being run.

Goodyear Starts Resin Output at New Plant

Goodyear Tire & Rubber Company, Akron, Ohio, has started production of resin at the new plant of its subsidiary, Pathfinder Chemical Corporation, Niagara Falls, N. Y. The resin will be used by the chemical products division of the company for the production of vinyl plastics.

Zinc Oxide Surplus Plant Sold by WAA

OPD Washington Bureau

A war-surplus zinc oxide reclamation plant, at Fort Smith, Ark., has been sold by War Assets Administration to the lessee, The Residue Company, for $102,000 Built to reclaim zinc oxide from smelter residue received from other plants, the project was designed for an output of 75,000 tons of zinc furnace residue annually. Between October 1, 1946, and May 1, 1947, approximately 24,000 tons of residue were processed in the plant.

Sulphosalicylic Acid Metals Test Described

OPD Washington Bureau

Serious time loss in the determination of iron in light metals can be avoided by a colorimetric procedure using sulphosalicylic acid according to a translated German research paper now on sale by the Office of Technical Services, Department of Commerce. The colorimetric test gives reproducible values in the presence of almost all the possible alloy elements and impurities, the report states.

The report (PB-53890; "Colorimetric Iron Determination in Light Metals using Sulphosalicylic Acid"; photostat, $1; microfilm, $1; limited supply mimeographed, 50 cents; thirteen pages; translation dated December, 1946) includes a diagram of the test procedure, calibration charts and tables showing typical test results. Orders for the report should be addressed to the Office of Technical Services, Department of Commerce, Washington 25, D. C., and should be accompanied by check or money order, payable to the Treasurer of the United States.

The sulphosalicylic acid test is said to work satisfactorily in the presence of aluminum, magnesium, silicon, copper, zinc, lead, cadmium, antimony and manganese.

Columbian Carbon Offers New Furnace Black

Columbian Carbon Company, New York, is producing a furnace carbon black which is said to be fully equal to channel black for the compounding of both natural and synthetic rubber.

Reid L. Carr, president of the company, said that the furnace carbon black developed by Columbian is being produced at five new plants and in five distinct varieties.

U.S. Plywood Resins Plant Near Completion

U. S. Plywood Corporation's Portland, Ore., plant for the construction of synthetic resins is expected to be in operation August 1. It will produce high-grade synthetic resins, principally phenol formaldehydes. The company also will erect on the site an additional research laboratory to supplement the company's research operations at New Rochelle, N. Y.

Atlantic Powdered Metals Add Dann, Faller to Staff

Atlantic Powdered Metals, Inc., New York, has appointed H. Dann production manager and L. Faller sales manager. Mr. Dann formerly did research and development work on new production methods for the U. S. Bronze Powder Works, and Mr. Faller is an authority and technical advisor on the use of bronze powders.

Goodrich Names Sullivan Marietta Personnel Manager

The B. F. Goodrich Company has named Jack Sullivan personnel manager of its new plastics division plant in Marietta, Ohio, which is expected to begin operations early this summer. Mr. Sullivan has been a member of the company's supervisory staff since 1941.

G.E. Builds Huge Plastics Part

General Electric Company's plastics division plant at Pittsfield, Mass., recently completed work on a 650 pound plastics part for the University of California's new atom smasher, which is said to be the largest plastic project ever produced by the company.

Reynolds Sells Three New York Buildings

Reynolds Metals Company has sold its three industrial buildings at 511-41 West Twenty-fifth street, New York, to the Henderson Realty Corporation. The properties were reported held at $1,000,000.

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Butyl Laurate — Butyl Oleate
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NEW YORK • BOSTON • PHILADELPHIA • CHARLOTTE

Foreign Sales

—Continued from page 4

Milano, Italy (S-9); Trieste, Italy (S-13); Bologna, Italy (S-14); Belo Horizonte, Brazil (S-15); Sao Paulo, Brazil (S-17); Sao Paulo, Brazil (S-19); Sao Paulo, Brazil (S-22).

Chromic oxide, Istambul, Turkey (S-8).

Coal tar products, London, England (S-1).

Copper sulphate, Milano, Italy (S-8).

Cosmetics, Teheran, Iran (S-12).

Dyestuff intermediates, St. Giles, England (S-2).

Dyestuffs, London, England (S-1); St. Giles, England (S-2).

Fertilizers, Milano, Italy (S-9).

Hydrochloric acid, Istambul, Turkey (S-8).

Industrial chemicals, St. Giles, England (S-2).

Medicinal preparations, Rome, Italy (S-10).

Milk powder, Fortaleza, Brazil (S-16).

Moulding powders, St. Giles, England (S-2).

Oils and fats for soap, Bari, Italy (S-11).

Oil seeds, Trieste, Italy (S-13).

Pharmaceutical chemicals, St. Giles, England (S-2).

Pharmaceutical products, Turin, Italy (S-4); Trieste, Italy (S-13); Bologna, Italy (S-14); Belo Horizonte, Brazil (S-15); Sao Paulo, Brazil (S-22).

Phosphates, London, England (S-1).

Pitch, Porto Alegre, Brazil (S-18); Natal, Brazil (S-20); Salvador, Brazil (S-2)1; Maceio, Brazil (S-23).

Plastic materials, Johannesburg, South Africa (S-6).

Plastics, Maceio, Brazil (S-23).

Potash, London, England (S-1).

Potassium bichromate, Istambul, Turkey (S-8).

Quebracho, Bologna, Italy (S-3).

Rosin, Trieste, Italy (S-13).

Soap, Trieste, Italy (S-13).

Sodium bichromate, Istambul, Turkey (S-8).

Sodium sulphide, Istambul, Turkey (S-8).

Spices, Trieste, Italy (S-13).

Sulphur, London, England (S-1).

Sulphur black, Shanghai, China (C-7).

Sulphuric acid, London, England (S-1); Istambul, Turkey (S-8).

Tanning materials, Porto Alegre, Brazil (S-18).

Titanium dioxide, Istambul, Turkey (S-8).

Turpentine, Trieste, Italy (S-13).

Varnish, Turin, Italy (S-5).

Drug Law Application

—Continued from page 3

commerce of adulterated and misbranded foods, drugs, devices and cosmetics, and for other purposes." Section 301(c) prohibits (under penalty by section 303), "The receipt in interstate commerce of any food, drug, device, or cosmetic that is adulterated or misbranded, and the proffered delivery thereof for pay or otherwise." Sullivan clearly did not receive in interstate commerce any misbranded drug, nor did he proffer delivery of any in interstate commerce. A moderately strict construction of this penal provision would confine it to shippers and to importers in interstate commerce, and proffers of sale by the latter. Sullivan was a party to intrastate sales only. Moreover, since this bottle was at all times duly labeled and not misbranded, no one violated this provision by receiving or proffering delivery of it.

Section 301 (k) prohibits "The alteration, mutilation, destruction, obliteration, or removal of the whole or any part of the labeling of, or the doing of any other act with respect to, a food, drug, device, or cosmetic, if such act is done while such article is held for sale after shipment in interstate commerce and results in such article being misbranded." The labeling here was not removed or multilated; but an act was done with respect to the drug, to wit, the removal of some of it from the labeled bottle and the placing of it in a box not sufficiently labeled under the act, after shipment in interstate commerce and while the drug was held for sale, so that this portion of the drug became misbranded. Therefore in their broadest possible sense these words may include what happened. But we are of opinion that they ought not to be taken so broadly, but held to apply only to the holding for the first sale by the importer after interstate shipment. . . . The attempt here made is to extend subsection (k) so as to make criminal all retail sales from the interstate package, though made clearly in intrastate commerce, unless the label on the interstate package which has been broken be reproduced on the retail package. We believe no grocer or druggist thus breaking an interstate package for a retail sale has understood this was necessary, and it is said this case is the first effort to apply the Federal act in this way. If the "holding for sale" is held to refer to all would-be sellers, no matter where or when or in what quantities, of all foods and drugs and cosmetics which at some time had moved in interstate commerce, the field of enforcement of the act will be multiplied many times. The reason urged for so expanding it, to wit, the protection of ultimate consumers, only makes another difficulty; for, while Congress may regulate interstate commerce to any extent and almost for any purpose it thinks proper, this extended application would be really a direct regulation for police purposes of what is plainly intrastate commerce, which is the peculiar province of the State.

And the state of Georgia has not neglected her duty. Title 42 of the Georgia code deals with the subject of selling and labeling foods, drugs, and toilet articles, with several cooperative references to the Federal laws and regulations. . . . It would seem the Federal inspectors should have reported them to the Georgia inspectors. It is probable that other States have similar laws, reducing the need for Congress to interfere thus in intrastate commerce, if it has the power.

Where Interstate Commerce Ends

In passing this act, Congress in its title indicated that its main and direct concern was with "the movement in interstate commerce." Until that movement is complete and the importer has sold his original packages the State cannot interfere. Congress regulated what the Constitution directly authorizes. There is no indication of any intention to regulate intrastate commerce because of any burdensome effect on interstate commerce. The talismanic expression, "affecting interstate commerce," is not used, as in the national labor relations act passed shortly before. . . .

The purpose of this act being to regulate "movement in interstate commerce" of foods, drugs, and cosmetics, and the general purpose of subsection (k) being to prohibit mutilation of the labeling on the packages which so moved, we do not find the proposed application of the *ejusdem generis* words, "any other act," plain enough to make criminals of retail grocers and druggists who did not import but who break and sell intrastate from the imported packages without mutilating the labeling. We thus find it unnecessary to determine the constitutionality of the Federal regulation of intrastate sales as here contended for, by denying that doubtful construction.

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Excise Tax Revision

—Continued from page 4

system adaptable to our peacetime requirements.

Each of the excises imposed should be carefully considered with a view to reduced or eliminating those which are extremely regressive, which enter into business costs, which are unduly burdensome on profits of particular industries, or which are unusually difficult to administer, he added.

Revisions of particular taxes will have to be studied in detail, he added, so that any changes made will be appropriate in light of the competitive conditions in the various industries.

As to the question of discrimination between domestic and imported goods, the Secretary recalled that the committee last year gave consideration to the problem of making certain imported merchandise subject to the same internal revenue taxes as similar merchandise of domestic origin, but ordered further study before any action was to be taken.

Consideration of the problem, he said, has involved an analysis of the treatment of such imported products as beer, lubricating oil, and numerous products containing alcohol, including medicinal preparations, toilet preparations, flavoring extracts, fruits and food colorings. Determining what constitutes discrimination is complicated by the nature of the tariff schedules which in some cases provide specific rates that may have been intended to compensate for the absence of excise taxes on imported products, he noted. The inter-relationship between excises and tariffs thus tends to raise questions involving this country's policies with respect to international trade agreements, he said.

Surplus Materials

—Continued from page 4

75,196 pounds; Birmingham, sealed-bid sale 71,109, June 10.

In a fixed-price sale running until June 20, the Omaha regional office is offering (OML-71-169) various chemicals and related articles, including the following:—

Activated carbon, 866 pounds, 15 cents per pound.

Aluminum chloride, 13,600 pounds, 8 cents per pound.

Calcium hypochlorite, 59,828 pounds, 1½ cents per pound.

Cleaning compounds, several lots, various types, various prices.

Dyes, several lots, 45 pounds to 163 pounds, various types, 30 cents per pound.

Hydrogen chloride, anhydrous, 30 cylinders, $37.50 each.

Isopropyl alcohol, 636 gallons, 35 cents per gallon.

Sealing compounds, several lots, various types, various prices.

Silica gel, 2,550 pounds, 8 cents per pound.

Soda ash, 500 pounds, $2.45 per 100 pounds.

Sodium nitrate, 2,226 pounds, 3 cents per pound.

Soldering paste, 425 pounds, 20 cents per pound; 146,544 ounces, 2½ cents per ounce.

Surface-hardening compound for iron or steel, 1,285 pounds, 90 cents per pound.

Trisodium phosphate, 26,000 pounds, 3 cents per pound.

Waterproofing compounds, several lots, various types, various prices.

Zinc cyanide, 600 pounds, 28 cents per pound.

A large number of lots of paints and varnishes, running up to 4,315 gallons, are offered for sealed bids up to June 3 in WAA sale SEL-75-350. Particulars may be got at any regional or other branch office. This sale also includes:—

Ethyl cellulose protective compound, 2,400 pounds.

Waterproofing compound, resinous, 5,088 pounds.

Scientific Data Bill

—Continued from page 5

of an important general nature, and to initiate and sponsor, upon recommendation by responsible persons, research or development work of a wide nature.

Senator J. W. Fulbright, of Arkansas, and Senator George D. Aiken, of Vermont, cosponsors of S. 493, said there is no intent in the legislation to have the government enter into competition with private industry and private research and technical organizations. The intent is, they said, to supplement these private activities and to give them essential technological data now denied to them in their work.

Industry representatives, however, were not so certain that such an interpretation can be placed upon the language of the bill. Harry A. Kuhn, Washington, D. C., chemical consultant, and formerly with the Chemical Warfare Service, thought that such provisions should be deleted from the bill. He was joined in this by Howard E. Blood, chairman of the patents and research committee of the National Association of Manufacturers.

Mr. Kuhn said that he favored that portion of the bill providing for a central agency to collect, edit, classify and disseminate data on inventions, technological research and development, those provisions for government-financed research on processes of future potential value, of economic evaluations of products, processes and inventions should be deleted from the bill. These particular services are now available for the most part in private and existing government agencies, he pointed out.

Mr. Blood opposed the bill in its entirety. He said it necessarily involves unwarranted invasion of private enterprise's legitimate sphere of activity; its objectives are exceedingly unlikly to be attained because no corps of government employees, no matter how large, could be sufficiently acquainted with all the myriad activities, problems and techniques of industry as to be able to render service of value, and it would impair, rather than stimulate, the effectiveness of private enterprise.

Dr. S. M. Trister, chief chemist for Otto B. May, Inc., Newark, N. J., a small manufacturing dyestuffs, testified in support of a central clearing house for technical information, stating that the work done thus far by the Office of Technical Services of the Department of Commerce, in disseminating the information on German industries, has been of immense help to industry. He did not discuss the other aspects of the bill.

He said the pre-eminent position of the I. G. Farbenindustrie and its ability to control through cartel arrangements, the world dyestuff industry, was based, in the last analysis, on its leadership in the field of dyestuff research. By disseminating complete technical information on the dyestuff research and manufacturing processes of I. G. Farbenindustrie, a decisive blow is being struck at the monopoly this firm formerly held.

He concluded that the sooner American industry has the immensely valuable library of technical information being compiled by the OTS at its disposal, the sooner it will be translated into new products and new jobs.

Provisions of the bill which would prevent private research groups using government funds for developing inventions from patenting these inventions were objected to by Dr. J. E. Hobson, director of the Armour Research Foundation. Under the provisions of the bill, all such patent rights would go to the government and not to the inventors.

He also expressed opposition to the provisions authorizing the Secretary of Commerce to undertake research and development work, while supporting those provisions for a central agency for disseminating research information.

Major General Henry S. Aurand, director of the research and development division of the War Department General Staff, supported the bill.

Botanical Drugs

—Continued from page 67

Singapore. Spot prices declined; West Indian, spot, 70c. to 71c. per pound; futures, 68c. to 69c.; East Indian, futures, 62c. to 63c.

Paprika—Choice Portuguese on spot was down to 40c. to 41c., while futures were off to 38c. to 39c. per pound. Choice Spanish was reduced to 46c. to 47c. and the fancy quality became 45c. to 46c.

Pepper — Last midweek a single transaction in black pepper was done at 25c. per pound. The general asking price at that time was 30c. to 31c. per pound. May-June futures were lower at 30c. to 31c.

Markets at Other Centers

Los Angeles, May 21.—Call for botanical drugs and spices here this week remained nominal. Buyers were meeting immediate needs. Buying spotty.

Marjoram—French type, 35c. per pound in dried form.

Sage—Dalmatian type, 34c. per pound for lots said to contain less than 12 percent stems.

Savory—French type, 75c. per pound.

Sweet Basil—90c. per pound for lots containing less than 12 percent stems.

Thyme—French type, 90c. per pound in dried and clean form.

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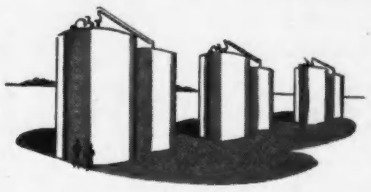

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* NAPHTHENATES		SOLUBILITY (77° F.) LINSEED OIL 1-19	SOLUBILITY (77° F.) MINERAL SPIRITS 1-10
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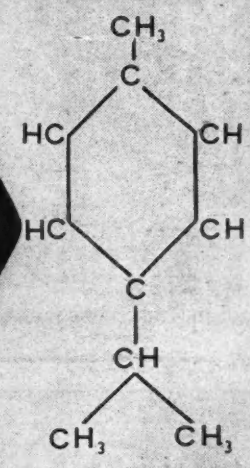

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Engler Distillation @ 760 mm.	5% — 176.3°C.
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Oils, Fats and Waxes

There was no cessation in the downward movement of oils and fats prices last week. Business was slow and irregular at every decline. Crude cottonseed oil was available at a reduction of 2 cents per pound, which was reflected in refined oil futures and new crop months reached new low levels. Corn oil was lower and light sales were made at a decline of 1½ cents per pound. Soybean oil was slow and fairly liberal offerings carried prices down 2 cents per pound. Moderate business was reported in tung oil for prompt and nearby delivery at a decline of 2 cents per pound, with distressed oil still depressing the market. Linseed oil also was affected by resale offerings overhanging the market. Crushers recently reduced quotations 2 cents, but resale material was said to be available several cents below first hand asking prices.

Copra was firmer under a good volume of trading for shipment from the Philippines to Europe, but became easier late in the period, though net gains of $9 per ton were registered. This had a strengthening influence on coconut oil and crude oil was sold at 1 cent per pound above previous transactions.

Tallow remained steady, especially the better grades, which were sold in moderate quantity at former levels. Low grades of tallow were reported in abundant supply. Grease was easy and some grades sold off ½ cent per pound.

Further sharp breaks in carnauba wax for shipments from Brazil were reflected in the local market and prices of stocks here were cut drastically, without increasing buyers' interest.

Cottonseed Oil

Market conditions were easier and under selling pressure, prices of bleachable cottonseed oil were sharply lower. New crop deliveries reached low lows. Reports of light consumption during May, weakness in competing oils and lower crude market were bearish factors.

Crude oil declined 2c. per pound during the week and offerings at 22c. per pound, tankcars, mills for prompt shipment found buyers indifferent. Refiners were out of the market, best bids reported were at 20c.

Prices of refined bleachable prime summer yellow cottonseed oil in tankcars on the N. Y. Produce Exchange for the week ended Thursday, May 22, follow:—

	Sales	Cents per pound—High	Low	Close
July	43	25.10	23¾	23.85S
September	11	19.60	18.05	18¼@19
October	10	18½	18	17¾@18
December	9	17.90	16¼	16@16¾
January	..	..	..	14½ bid
March	..	..	..	14½ bid
May	..	..	..	14½ bid

Total sales, 73 contracts.

Crude oil was nominal at 22c. per pound, tankcars, f.o.b. mills.

Memphis.—Market quiet. Crude oil offered at 22c. per pound, tankcars. Valley basis. Cottonseed meal, 41 percent, was offered at $63.50 per ton. Memphis. Trading light. Soybean meal, sacked, quoted at $62 and $63 per ton, prompt and June shipment. Hulls, named at $13 per ton, bulk, and $18, sacked, Valley basis.

Linseed Oil

With distressed oil overhanging the market, and the absence of buying interest, prices were easy and entirely nominal. Quotations for resale oil covered a wide range and were heard below 30c. per pound, tankcars, for raw oil, though news of actual transaction was not available. Crushers were quoting nominally at 35c. per pound, tankcars.

Some 2,000 tons of Argentine oil were reported offered to crushers at 36¾c. per pound, tankcar basis, by Commodity Credit Corporation, but elicited no interest at this figure.

Improved demand was noted for deliveries against contracts although the volume was far below that usually received at this season. Further declines in prices of tung and oiticica oils had a weakening influence on linseed oil.

First official Canadian flaxseed acreage for 1947 was indicated at 1,684,200 acres, which is 67 percent more than 1946. Prairie Provinces accounted for most of the increased acreage. Seeding operations are considerably delayed by inclement weather.

Minneapolis.—Demand for oil was virtually nil and local crushers were doing little or nothing in the way of new business as they waited for the general market to stabilize. Crushing operations were down to 10 percent of capacity and while movement of oil continued at a relatively good rate it was apparent that most of the mills would be completely closed by the middle of June. Prices were still difficult to quote and a nominal basis of 33.5c. to 37c. a pound, in tanks, was quoted.

Shipments of linseed oil, in pounds, were as follows:—

	1946-47	1945-46
This week	4,380,000	5,280,000
Since Sept. 1	202,760,000	233,004,000

Los Angeles.—Inquiry for linseed oil took a drop here this week. Prices were reduced, but interest was lacking. Oil was named at 34c. per pound in tankcars.

Flaxseed—Market continued quiet. Crushers bidding $6 per bushel for flaxseed future deliveries.

Minneapolis.—Flaxseed trade was at a virtual standstill as offerings in the cash market dwindled down to almost nothing and shipments from Minneapolis were in excess of the week's receipts. Buyers were active enough on the few cars available and prices held firm at $6.25 in the spot market. Bids on flax to arrive were at $6.00, the government support price. The field situation on flaxseed was still somewhat mixed, early planted fields coming along in good shape under cool weather and clear skies. Planting was pretty well completed in the western sections of the belt as well as in the southerly areas. In the Red River Valley and adjacent areas, moisture conditions were still bad and much land still had an over-abundance of topsoil moisture. Crushers were watching the situation closely, most of them being quite optimistic about the situation as almost ideal weather conditions are giving the planted crop a good root growth and a firm foundation to withstand the heat of the Summer ahead.

Bushels—	Receipts 1946-47	Receipts 1945-46	Shipments 1946-47	Shipments 1945-46
This week	32,500	34,500	40,500	39,000
Since Sept. 1	11,701,700	18,164,500	3,903,600	3,815,000

Other Vegetable Oils

Castor, Dehydrated—Buying interest continued to lag, and the market was dull with prices more or less nominal at recent price reductions. Weakness in other drying oils has affected demand for this product.

Coconut—This market was steadier, in sympathy with the advance in copra. Crude oil sold at 13c. per pound, sellers tankcars Pacific coast early in the week, and crushers advanced quotations to 14c. with buyers withdrawing interest. Additional sales were at 13c. tankcars, Pacific coast basis, late in the period, an increase of 1c. above transactions a week ago.

Copra—Improved trading for European account strengthened the market and prices were increased to $175 per short ton, f.o.b. Pacific coast. Late in the week quotations receded to $171 same basis, registering a net gain of $9 per ton for the period. International Emergency Food Council issued, May 19, interim allocation recommendation on Philippine copra which affects thirty-three nations and is based upon the latest estimate of the 1947 Philippine copra production of 485,000 tons. Importing nations with an annual allocation of 20,000 tons or less are authorized to

Market Trends

Prices Advanced

Coconut oil, 1c. per lb.
Copra, $9 per ton.

Prices Reduced

Beeswax, crude, 2c. per lb.
refined, 2c. per lb.
Carnauba wax, 15c. to 30c. per lb.
Grease, tallow, ½c. per lb.
Lard, 1c. per lb.
Corn oil, 1½c. per lb.
Cottonseed oil, 2c. per lb.
Linseed oil, 2c. per lb.
Oiticica oil, 1c. per lb.
Peanut oil, 2c. per lb.
Soybean oil, 2c. per lb.
Tall oil, ¾c. per lb.
Tung oil, 2c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
202.2	208.2	244.5	193.5

(For Current Prices see Page 9)

For Late Market Developments, See Page 4

procure and ship the entire amount and those with allocation of more than 20,000 tons are authorized to ship 75 per cent of their allocation.

Corn—Crude corn oil was offered at 19c. per pound, tankcars, f.o.b. mills, a decline o 1½c. per pound. Refined oil was easier selling at 24c. same basis and later was offered at 23½c.

Oiticica—Further easiness occurred last week. Offers of resale oil at 22c. per pound, tankcars for prompt delivery with no takers.

Olive — Consumers showed practically no interest in stocks on the spot and the market was merely nominal at $6.75 per gallon, drums, duty paid. California oil was quoted at $6.25 per gallon, drums on the spot.

Palm—Negotiations between Belgian colonies department and palm oil merchants, resumed recently, have been brought to a successful conclusion and new contracts are being drafted, it was reported by Aneta. Most of the demands of the palm oil commission have been met, it was stated. Belgium will supply packing materials and freight space for shipment of Congo palm oil to Belgium and send to the Congo domestic articles at reasonable prices and with preferential treatment, while the Congo will sell its palm oil to Belgium at less than the world price, according to the agreement.

Peanut—Refiners were out of the market and quotations were merely nominal. Crude oil was offered at 24c. per pound, tankcars, f.o.b. mills Southeast, with the best bids reported at 20c.

Soybean — Market continued easy and prices declined 2c. per pound for the week. Light trading in crude oil was reported at 20c. per pound, tankcars, f.o.b. mills for May shipment, at 19c. for June and 18½c., July-September. Interest in futures slackened and July-September was available at 18c. mills. Crushing of soybeans the first half of the 1946-47 season was the largest on record, reflecting the urgent demand for oil. Soybean stocks April 1 totaled slightly over 100,000,000 bushels which was about 2 percent larger than a year ago.

Prices of refined bleachable soybean oil in tankcars on the N.Y. Produce Exchange for the week ended Thursday, May 22, follow:

	Sales	Cents per pound—High	Low	Close
July	..	..	..	22 nom
September	..	..	..	18½ nom
October	..	..	..	15½ bid
December	..	..	..	15½ bid
January	..	..	..	15½ bid
March	..	..	..	15½ bid
May	..	..	..	15½ bid

Total sales, none.

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Washington Chemical Co., Newcastle, U.K.
Bolidens Gruvaktiebolag, Stockholm, Sweden

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Tall—Quiet demand and lower competing oils were reflected in this market and prices were reduced ¾c. per pound in most quarters. Refined was quoted at 6¾c. per pound, tankcars, and 1c. higher for drums, carlots. Crude oil was merely nominal at $90 per ton.

Tung—A good volume of business was reported at 25c. per pound, tankcars for prompt and nearby shipment, a decline of 2c. below transactions a week ago. Drums were quoted nominal at 27c. in carlots and smaller lots at 28c. to 28¼c.

Los Angeles. — Buying interest has slacked off here, and prices continue to decline. Business was almost at a standstill. Tankcars were quoted as follows:—Chinawood, 25c. to 26c. per pound; coconut, crude, 13c. per pound; cottonseed, bleachable, 25c. per pound, f.o.b. Texas; mustard seed, 18c. per pound; peanut, crude, 23c. to 24c. per pound, f.o.b. Texas; sesame seed, crude, 38c. per pound; soybean, 21c. per pound; castor, prime cold pressed, 34c. per pound, drums included.

Fats and Greases

Greases—This market was easier and trading was noted in yellow grease at 11½c. per pound, loose, a decline of ½c. House also was lower at 11⅝c., same basis, while choice white was nominal at 13c.

Lard — Prices registered further weakness last week and declined about 1c. per pound. Trading was slow. Cash lard was nominal at 17.80c. per pound, tierces and at 15¼c. bid loose, Chicago. Stocks of lard and rendered pork fat in the United States totaled 127,613,000 pounds, May 1, compared with 109,254,000 pounds, April 1, and 71,153,000 pounds, May 1 last year. The May 1 5-year average is 179,716,000 pounds. Lard stocks in Chicago on May 15 were indicated at 46,217,109 pounds, compared with 40,616,815 pounds May 1 and 7,075,127 pounds May 15 last year. Department of Agriculture has recommended a 1947 fall pig production goal calling for farmers to keep 15 percent more sows than they did to produce the 1946 fall crop now coming to market. Achievement of this goal would result in a fall crop of nearly 35,000,000 pigs for market in 1948, compared with the 1946 fall crop of approximately 30,600,000 head. Since the 1947 spring pig crop is expected to be about 53,000,000 head, the number indicated by the goal would result in a total 1947 pig crop of about 88,000,000. This would be nearly 5,000,000 pigs more than were produced in 1946. No difficulty regarding feed supplies appears likely if average corn yields are maintained, officials said. An average corn crop this year, with the prospective carryover, would provide sufficient feed for finishing out a fall crop of 35,000,000 pigs and for taking care of other needs.

Tallow—An improved tone featured this market last week, with sellers showing less disposition to take business at lower prices. Trading was moderate in the better grades at former levels and was transacted at 12¾c. per pound, loose, for extra. Other grades also were unchanged.

Fish Oils

Menhaden—Demand continued slow and quotations were unchanged and nominal. Refined stocks were light, but were more than adequate to cover small lot buying.

Sardine—There was no change in the market. Refined grades were slow and quotations were nominal at recent reductions.

Fatty Acids

Red Oil—Demand was slow, and restricted to withdrawals against former orders. Prices were unchanged at the recent decline.

Stearic Acid — Consuming inquiry was dull. Consumers were taking supplies against current orders and showed little interest in new commitments. Quotations were unchanged. Department of Agriculture has allocated for export 25,000 pounds of stearic acid to India to meet established needs.

Cake and Meal

Department of Agriculture has announced emergency allocations of 5,000 long tons of protein meal to the Netherlands and 5,000 long tons to Sweden. These allocations will be in effect during the first six months of 1947, and will be charged to world allocations of protein feeds for the

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Dry: ..... Similar to Bodied Linseed
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above mentioned countries, as recommended by the International Emergency Food Council.

Cottonseed Meal—Market was easier due to inactive demand. Largest single trade reported last week was by a reseller who could not furnish shipping instructions for May. This transaction involved 600 tons, sacked 41 percent, at $60 f.o.b. North Alabama mill points. Southeastern mills who have surplus stocks are generally asking from $63 to $65. Loose, slab cake in the Valley is offered at $56 for June and July shipment. Sacked 41 percent meal is quoted at $62 Memphis.

Linseed Meal—Trading slow. Market was steadier, with sellers advancing prices $1 per ton.

Minneapolis.—Demand for meal was rather listless and the market seemed to be slowly recovering from a decline that carried prices on bulk meal down to $60 per ton. Latest quotations on meal ranged from $61 to $64 per ton.

Shipments of linseed meal, in pounds, were as follows:—

	1946-47	1945-46
This week.....	5,640,000	6,920,000
Since Sept. 1.....	267,392,000	317,680,000

Peanut Meal—This market was firm because most surplus stocks have been sold. There is not much demand from domestic or export trade, on the other hand, only small quantities of 45 percent were offered at $60 to $63, sacked. Planting is practically complete, and the crop is generally coming up to very good stands. Season still three to four weeks late in Alabama, Georgia, Florida areas.

Soybean Meal—Valley mills are still willing to sell at $61 to $62, sacked, which is much cheaper for this area than offerings from the Middle Western processors. North Carolina processors are asking $64 to $65 per ton, mills, sacked, but no trades are reported.

Waxes

Beeswax—This market was quiet and the tone was easy. Trading was confined to small lots for actual needs. Prices were slightly lower for crude and off about 1c. per pound. Refined was unchanged and more or less nominal. African and Western Hemisphere was quoted at 54c. and 55c. per pound.

Candelilla—Business was slow and the market unsteady. Crude was quoted at 74c. to 75c. per pound on the spot and refined, 77c. to 78c.

Carnauba—Further sharp declines of prices for shipment from Brazil, was reflected in the local market and quotations slashed from 15c. to 30c. per pound, as to grade, for spot delivery. Buyers continued to show practically no interest and prices were entirely nominal. Chalky, No. 3 was nominal at 80c. to 85c. per pound, North Country, No. 2, 95c. to $1; No. 3, North Country, 85c. to 90c.; refined, 95c. to $1, and yellow, No. 1, $1.10 to $1.15.

Ouricury—Weakness in carnauba created an easier tone and prices were off 3c. to 4c. per pound. Crude wax was quoted at 53c. to 55c. per pound and refined 60c. to 62c. Replacement costs were maintained at former levels by financial factors in Brazil. Business was inactive.

Oil Chemists

—Continued from page 5

28-30 percent oil and somewhat higher percentages of protein. The oils from both species were chiefly characterized by the presence of 10 to 17 percent of a conjugated trienoic acid similar to the eleostearic acid of tung oil, but apparently not identical with it."

Deodorization Effects

Speaking on "The Effects of Deodorization on the Stability of Vegetable Oils," Richard A. Baldwin, of the Corn Products Refining Company, said that corn oil, soybean oil and grain sorghum oil have been deodorized in a laboratory deodorizer equipped with a "take-off" for removal of samples at various times during deodorization.

"Stabilities of the oils," he said, "increase rapidly during the initial part of the deodorization and this increase is apparently caused by heat destruction of pro-oxidants such as peroxides rather than by removal of volatile materials through steam distillation. These laboratory results in general were confirmed by a similar study of commercial deodorization of corn oil."

Rice Bran Oil

A report prepared by P. B. V. Reddi, K. S. Murti and R. O. Feuge, of the Southern Regional Research Laboratory, New Orleans, said that the feasibility of producing a rice bran oil of good quality by extraction with petroleum naphtha has been demonstrated.

"An oil," the authors said, "having a free fatty acid content of about 4-5 percent can be obtained by extraction of freshly milled bran. Depending upon the conditions of extraction, the wax content of the oil varies from zero to approximately 5 percent."

Data for the various solvents and yields of wax obtained was presented and various methods of extraction were discussed, as well as the effects of various bleaching agents and their comparative efficiencies. The paper concluded by stating that the possibilities of processing rice bran oil appear to be promising in view of the fact that this oil behaves in the same manner as other oils of similar chemical properties.

Bleachability of Oils

Discussing the effect of soap on the bleachability of commercially refined oils, Wales Newby, of the Cotton Products Company, Opelousas, La., described tests made in connection with bleachability.

"Of two samples of commercially bleached oil examined," he said, "one contained 0.004 percent soap and the other 0.008 percent. In a plant test, treatment with a filter aid only reduced the soap content of a normal refined soybean oil about as much as does bleaching. The presence of even as much as 0.240 percent sodium soap in refined oil did not affect the color of the bleached oil produced therefrom, insofar as the Lovibond reading in the Wesson tintometer was concerned. However, when the samples were view by reflected as well as transmitted light, there was a noticeable difference in the appearance of the oil bleached in the presence of excessive soap."

Vegetable Oils Refining

In "A Study of the Caustic Refining of Vegetable Oils," presented by Ralph H. Fash, of the Fort Worth Laboratories, Fort Worth, Tex., the variations in refining procedure for fast-breaking slow-breaking and expeller cottonseed oil, soya bean oil, degummed soya bean oil and refining vegetable oils were shown to be related to the amount and types of phosphatides present in the oil.

He demonstrated that the neutral oil content of the soapstock obtained from refining these oils is determined by the amount and types of phosphatides present, and made a comparison of the refining procedures and results obtained by the kettle process, the Clayton continuous process, and by the mist-mixing process.

New Antioxidant

A paper entitled "Nor-Conidendrin: A New Antioxidant for Fats and Oils," prepared by G. S. Fisher, Lillian Kyame and W. G. Bickford, of the Southern Regional Research Laboratory, said that nor-conidendrin has been found to exhibit antioxidant properties in hydrogenated and unhydrogenated fats and in fatty substrates essentially free from natural antioxidants.

"Its antioxidant activity in these products," the authors said, "is comparable with that of nor-dihydroguaiaretic acid. It has been found that not only nor-conidendrin, but also other polyphenolic antioxidants exhibit enhanced activity in peanut oil in comparison with other vegetable oils."

The paper went on to say that nor-conidendrin may be used either alone or in combination with acidic synergists, and added that it is effective whether added to a fat before or after deodorization.

Isopropanol as a Solvent

Discussing isopropanol as a solvent for the extraction of cottonseed, a paper prepade by W. D. Harris, F. F. Bishop, Carl Lyman and Raymond Herbert, of Texas A. & M. College, described pilot plant investigations of the use of isopropanol and hexane-isopropanol mixtures as solvents for the extraction of cottonseed oil.

A method, it stated, has been developed for extracting gossypol and related color substances along with the oil and later separating them from the miscella. The paper said that gossypol, fatty acid, phosphatide and and raffinose fractions were separated from the miscella and added that feeding tests on rats and swine have

shown the gossypol free meal to have a high protein value.

Cottonseed Pigment Glands

Charlotte H. Boatner, of the Southern Regional Research Laboratory, presented a brief summary of the results of cooperative nutritional investigation with cottonseed pigment glands, gossypol and cottonseed meals prepared by different methods of processing.

"Several independent feeding tests," she said, "have demonstrated the superior nutritive value of gland-free cottonseed flour prepared by the gland flotation process and of diethyl ether-extracted cottonseed meal compared with hydraulic-pressed cottonseed meal, petroleum naphtha-extracted uncooked cottonseed meal, and screw-pressed soybean meal."

She presented data demonstrating that the deleterious factors of cottonseed are segregated in the cottonseed pigment glands and said that these factors are inactivated during the cooking of cottonseed, but that the biological value of other thermally unstable beneficial components of the cottonseed is simultaneously reduced.

Removal, she stated, of the contents of the glands by exhaustive extraction with diethyl ether or removal of the intact glands by the gland flotation process yields a protein meal which is of superior nutritive value.

Hydrazides of Acids

In a paper entitled "Hydrazides of N-Fatty Acids," prepared by Lilliam Kyame, G. S. Fished and W. G. Bickford, of the Southern Regional Research Laboratory, it was stated that the hydrazides of the normal fatty acid series from valeric to lauric and of palmitic and stearic acids have been prepared and their melting points, and mixed melting points determined.

All of the products, it said, are crystalline solids at room temperature and have melting points between 62° and 116° C. The melting point differential, it added, approximately 10°C., between the lowest adjacent members decreases as the series is ascended and is only 3°C. between palmitic and stearic acid.

The paper said that a plot of the melting points of the hydrazides vs. number of carbon atoms gave a smooth curve exhibiting no alternation between even and odd members of the series, and added that the hydrazides are readily prepared from the corresponding esters and appear to be satisfactory derivatives for identifying fatty acids of moderate molecular weight.

Tocopherol Content

A paper on "The Accurate Determination of Tocopherol Content During the Commercial Processing of Soybean Oil," prepared by Noel Kuhrt, H. W. Rawlings and J. G .Baxter, of Distillation Products, Inc., Rochester, N. Y., discussed the methods described in literature for assaying low-potency tocopherol preparations and reached the conclusion that the Emmerie and Engel procedure, modified to make allowance for the possible presence of alpha-tocopherol, is the most accurate method now available.

The authors compared the losses of tocopherols suffered during centrifugal and batch alkali refining, discussed the effect of bleaching on the tocopherol content and considered the problems involved in assaying residual oils from which most of the tocopherols have been separated.

Vitamin A Determination

In a paper entitled "Application of the Floridin Method for the Determination of Vitamin A in Foods and Food-Products," J. P. Awapara, J. W. Mehl, and H. J. Deuel jr., of the University of Southern California, said that a method developed for determination of vitamin A in margarin has been proven satisfactory for other foods.

This method, the authors said, is based on the quantitative destruction of vitamin A by means of activated floridin XXF, and went on to describe the procedure used in application of the method. The paper stated that this procedure has been applied successfully to margarin, butter, eggs and milk, and added that at present studies are under way to apply it to poultry feeds.

Nitrogen in Vegetable Oils

A paper prepared by T. A. McGuire, F. R. Earle and H. J. Dutton, of the Northern Regional Research Laboratory, Peoria, Ill., described a method for the determination of nitrogen in vegetable oils based on concentrating the nitrogenous compounds in an aqueous phase by preliminary acid hydrolysis of a large sample of oil.

After separation, according to the authors, the acqueous phase is digested and distilled with ordinary Kjeldahl equipment and the nitrogen determined with Nessler's reagent. They went on to state that with quantities of nitrogen as small as one part per million of oil, reproductibility is within plus or minus twenty percent, while for lesser amounts the method is only semi-quantative.

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1—No. 1½ Sturtevant Ring Roll Mill.
9—Hammer Mills: No. 20 Dixie with 25 H.P. A.C. motor; 36x24" Type B Jeffrey; 36x24" Gruendler; No. 1 Williams Helix Seal with 10 H.P. A.C. motor; No. 2 Mikro; Williams No. 1 Jumbo Jr.; Gruendler Master with 2 H.P. motors; No. 3 Prater with 5 H.P. motor; Sturtevant Swing Sledge Mill 16" wide.
5—Cage Mill Disintegrators, 12", 24", 36".
4—Mead Disintegrators, Nos. 1, 3.
6—Schutz O'Neill, Nos. 1 and 3 sugar type; 16", 22", 28".
2—Quaker City Mills, 3/5 H.P.
4—3' dia. x 30" Hardinge Conical Ball Mills, two unlined and two with bolted iron linings, all with cast steel machine-cut herringbone gear drives for direct motor connection.
3—Hardinge Silex Lined Pebble Mills, 8'x30" (11'10" long c/c of main bearings) and 6'x22"; also iron lined, 3'x8" and 8'x30".
3—5'x20' Bonnot Tube Mills, silex lined, steel heads; Smidth 5'6"x20'; also 3'x8' iron lined ball or rod mill.
3—Colloid Mills—U.S. with 2—15 H.P. motors; Charlotte No. 600; also Size 8 Premier Type U-4, stellited. 10 H.P. A.C. motor.
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75—36" x 36" Cast Iron Filter Press Plates and Frames.
1—Stokes No. 149 B Vac. Pump.
1—Gruendler 7" x 10" Jaw Crusher.
1—Dings Magnetic Separator, 12" Magnetic Pulley.
1—Gayco 3' Centrif. Air Separator.
1—Sturtevant 36" Rock Emery Mill.
1—Sharples No. 6 Centrifuge.
6—Pfaudler Glass Lined Jack. Agit. Kettles, 350, 400, 500 gals.
10—Stainless steel, jacketed Kettles, new & used, 40, 60, 80 & 375 gals., some agitated.
4—Aluminum jack. Kettles, 60, 80 & 100 gals.
18—Copper jack. Kettles, 2, 20, 50, 75, 100, 250 & 350 gals., some agitated.
1—Abbe 2 Jar Mill, 2 gal. Jars.
1—Hammer Mill, 7½ H.P.
1—Williams No. 00 Hammer Mill.
1—Williams No. 2 "Regular" type Hammer Mill.
1—Stedman 32" Single Roll Crusher.
1—Jeffrey 18" x 48" Single Deck Conveyor Screen.
25—New Stainless Steel Tanks, 100 to 1,000 gals.
New Water Stills, Gas and Elec.
New 40 gal. Pony Mixers.
4—Day Pot Mills, 24" x 32" dia.
12—Filter Presses, Iron, Wood and Rubber, 18" to 42" sq.
8—Centrifugals, 20", 26", 30" & 40".
4—No. 0000 and No. 0 Raymond Mills.
10—Closed steel Kettles & Stills, up to 1,000 gals.
1—250 gal. lead lined Kettle.
1—700 gal. steel, copper lined vac. Filter Tank.
1—Dopp 50 gal. jacketed Kettle.
1—Blystone 2,000 lb. horiz. Spiral & Paddles Steel Mixer.
6—Horiz. Mixers, 20 to 250 gal., single & double arm.
1—Faust 150 gal. Spiral Mixer.
2—Devine & Worth. Horiz. Vac. Pumps, 12" x 6", 8" x 6" x 4" x 6".
2—Worthington 12" x 12" x 12" Vac. Pumps.
2—DeLaval Multiple Clarifiers, 300 & 301.
2—Rotary Screens, 18" x 72".
6—Attrition Mills & Disc Grinders, up to 22".
1—Double Stand Steel 4-Roller Mill, 7" x 20".
10—Iron Mills, 12", 14" & 18".
8—Stone Mills, 8" to 22".
6—Lead & Paste Mixers to 300 gals.
3—Varnish Kettles, 200 gals.
1—Shutz-O'Neill 20" Pulverizer.
2—Double Roll Crushers.
300 ft. 12" Roller Conveyor.
15—New, Portable, Electric Agitators, ¼ to 2 H.P.
20—Rotary Centrif. & Triplex Pumps.
6—Gas Boilers, up to 10 H.P.

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We Buy Your Surplus Machinery

STEIN EQUIPMENT COMPANY

Department E

426 BROOME ST., NEW YORK 13, N.Y.

CANAL 6-8147

P.A.'s View

—Continued from page 3

able, and a surplus of common labor is noted in some districts.

Canada

The Canadian picture more closely resembles that in the United States this month. Production is high; prices tend to level off except on recently decontrolled items; the direction of inventories is downward; employment is high; buying policy is tight.

Price and supply conditions in major industrial fields will be analyzed at the 1947 convention of the National Association of Purchasing Agents, which 3,000 members will attend, June 2 to 4, in the Waldorf-Astoria, New York. The Wednesday afternoon session will be a forum on prices conducted by the association's consultants and the members of the business survey committee.

PROCESS EQUIPMENT FOR SALE

1—No. 12 Sweetland Filter Press. 36 leaves, 4" centers.
1—4 ft. dia. x 32 ft. long Rotary Dryer, drive and motor.
1—4 ft. dia. x 9 ft. long Atmospheric Drum Dryer.
1—4 ft. dia. x 12 ft. long Atmospheric Drum Dryer.
1—No. 1 Raymond Pulverizer, Cyclone, Blower & Motors.
1—No. 1 Gruendler Pulverizer & 7½ HP motor.
1—No. 3 Mikro Pulverizer & Motors.
1—No. 2 Mikro Pulverizer & Motors.
1—5 ft. Gayco Separator & 5 HP motor.
1—30" Raymond Separator & 3 HP Motor.
1—Model 100 Sprout Waldron "V" Style Mixer.
2—24" x 24" Sperry Plate & Frame Iron filter presses.
1—30" x 30" Shriver Plate and frame Wood Filter Press.
1—6 ft. dia. x 6 ft. long Thropp Silex Lined Pebble Mill.
1—6 ft. dia. x 5 ft. long Porcelain Lined Pebble Mill.

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1—Baker Perkins Jacketed Stainless Steel Mixer, 50 gals., Sigma Blades.
1—Baker Perkins Jacketed Stainless Steel Mixer, 20 gals., Sigma Blades.
1—J. H. Day Jacketed Stainless Steel Mixer, 50 gals., Sigma Blades.
1—Stainless Steel Still, 40 gals.
2—Pfaudler Stainless Steel Jacketed Tanks, 13,500 gals.
2—Stokes Jacketed Vacuum Mixers, 75 gals., 3 HP Motor; 8 gals., 1 HP Motor.
1—Louisville Rotary Steam Tube Dryer, 6' x 50'.
13—Sharples Super Pressurite No. 6 Centrifuges, 3 HP Explosion-Proof Motors.

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UNION, N. J.

Est. 1886 UNionville 2-4900

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8—New Ingersoll-Rand 6" x5" pumps, 1,000 g.p.m. directly connected to 7½ h.p. T.E. motors.
2—Rotex sifters with stainless steel screens, 40"x 84" and 60"x84", motorized.
2—30"x30" cast iron filter presses, open delivery, 35 plates, 35 frames.
2—Stainless steel condensors, 210 sq. ft., with 1½" stainless steel O.D. tubes.
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1—DeLaval Lab. Separator with ½ H.P. Motor.
1—18-spout Karl Kiefer Rotary Filler.
10—New Sharples Oil Purifiers.
6—Stokes Rotary Tablet Machines, Model RD-4.
6—New Clevon Can Filling Machines.

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New Dry Powder Mixer, ribbon type, 8 cu. ft.

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3—9" x 24" motor driven roller mills.
1—16 x 40 roller mill.
3—12 x 30 roller mills.
PONY MIXERS from 2½ gallons to 40 gallons.
2—4'6" x 5' burr stone-lined pebble mills.
1—Paterson 6' x 5' watercooled steel ball mill.
10—New portable tanks on wheels, size 36 x 36, for change can mixers.

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AGENCIES WANTED

Established Pittsburgh firm covering steel, glass, and chemical industries would be interested in representing producers of raw materials or chemicals. OPD 677.

Business man, leaving for Europe and Middle East June 16th, seeks representations chemicals and equipment. Best European connections, excellent references. OPD 722.

EQUIPMENT OFFERED

For Sale: New 150 gal. post mixer, complete with change tank, 5 HP motor, and transmission unit. Exceptional delivery, usable for paste as well as liquids. Also available new dry powder ribbon mixers, sizes 8 cu. ft. to 70 cu. ft. Allied Steel & Equipment Company, 1007 Springfield avenue, Irvington, N. J.

One 2 stage vertical air cooled vacuum pump 62 cu. ft. displacement. $360.00. Ziegler Pharmacal, Buffalo, New York.

For sale: one pony mixer, single speed, 1800 rpm. Gen. motor. Also one Am. sterilizer, size 3'x2'x2', fully equipped both good as new; immediate possession. Schuylkill Chemical Co., 2346 Sedgley Ave., Philadelphia 32, Pa.

Stainless steel tanks 3-500 gal., closed, vertical; 1-1900 gal., open, vertical; 2-350 gal., open. Quick delivery on other sizes to 3,000 gals. Can furnish steam coils, jackets, agitators. Other types stainless steel equipment made to order. Basin Alloy Works, 24 Creamer St., Brooklyn, N. Y. Triangle 5-9187.

Drums offered: For sale 18-gauge single trip bung type drums; also quick-lox type drums. OPD 729.

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Tablet Counting and filling machine, either automatic or semi-automatic for counting and filling 24 tablets per vial or multiples thereof. Similar to No. 1 Colton machine. Full details, including price. OPD 725.

9—Cleaners, Pneumatic Scale, inverted Bottle Air.
3—Mixers, Powder, Ribbon Type; 400 to 700 lbs.
2—Mixers, Tilting, Day 1½ bbl.
3—Mills, Hammer, Williams No. 1.
2—Mills, Paint, Harris 000.
1—Dryer, Louisville, Rotary Steam, 6' x 30'.
5—Dryers, Wittemann, Double Drum, 22" dia. x 38".

2—Crystallizers, Swenson-Walker, 30' lg.

1—Evaporator, Lawrence, Triple Effect, 4,985 sq. ft.
1—Column, Still-Dephiegmator, 20" OD x 12'8" high.
2—Centrifuges, No. 4 Sharples Pressuretite.
1—Still, Jewell 250 GPH Water.

9—Presses, Stokes, RD4.
4—Presses, Colton, Tablet No. 2.
7—Presses, Single Punch.

8—Pumps, Glass, Nash.
10—Pumps, Durlron, D4A4 ¾ & D2MD7 ½.
1—Pump, Stainless Ingersoll-Rand, 500 GPM at 200' head.
12—Blenders, Powder, Gemco, 25, 50, 300 and 500 lbs.
2—Conveyors, Belt, 0" x 117'0" lg.
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2—Tanks, Steel, 1,000 gal., Jacketed & Agitated.
6—Tanks, Copper Tinned, Closed.
5—Tanks, Glass Lined, 100 Gal.
8—Tanks, Glass Lined, Jacketed & Agitated, 150, 600, 450, 1,000 gal.
6—Tanks, Glass Lined, Agitated, 500, 200, 100.
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1—Filler, Karl Kiefer, Piston.
1—Filler, Triangle, Bulk.
1—Filler, 10 spout, Stainless, Vacuum.
1—Filter, Oliver Precoat, Stainless.
1—Filter, Shriver Press, 12 x 12.
1—Filter, Bowser, No. 1 & 2.
1—Filter, Kelly 450.
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Tank truckload 4,000 gallons alkali refined sardine oil (Crown Oil Company's manufacture), 28c. per lb. delivered for delivery eastern New York, New Jersey and Pennsylvania. OPD 713.

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Wanted: Crude coal tar and water gas tar in quantities. We have facilities for immediate removal. R. R. tank cars, tank trucks, storage tanks. P. S. Kramer, Tar Refiner, 7 Smith street, Paterson 1, New Jersey.

To manufacturers and jobbers: Are you overstocked? We require immediately large or small lots, many items, chemicals, pharmaceuticals, solvents, aromatics, waxes; other supplies. Submit offerings at once. Correspondence treated confidentially. OPD 684.

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14—Stokes RD-4 Rotary Pellet Presses, 16 stations, 1¼" fill, belt-driven, $1,250.00 each.
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